



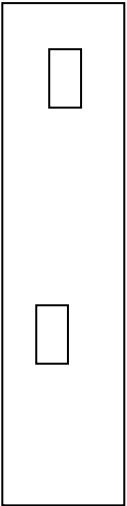
Università degli Studi di Napoli Federico II  
 Dipartimento di Ingegneria Civile, Edile ed Ambientale  
**Laboratorio di Geotecnica**

<u>Committente</u>	Consorzio HirpiniaAV
<u>Indagine</u>	I lotto funzionale Apice-Hirpinia
<u>Sondaggio</u>	SNGR04
<u>Campione</u>	C4
<u>Profondità</u>	24,40 ÷ 25,00 m
<u>Data apertura</u>	24/01/20
<u>Operatore</u>	Alfredo Ponso

Diametro (mm):	85
Lunghezza (mm):	500
Data di apertura:	24/01/2020

<b>Stato del Campione</b>	Indisturbato	x
	Parzialmente Rimaneggiato	
	Rimaneggiato	

<b>Descrizione:</b> Argilla grigia marnosa. Presenza di noduli marnosi e livellati millimetrici di sabbia finissima..						
<b>Colore</b>	grigio					
<b>Plasticità</b>	<input type="checkbox"/> Non Plastico	<input type="checkbox"/> Bassa	<input checked="" type="checkbox"/> Media	<input type="checkbox"/> Elevata		
<b>Addensamento</b> (Terreni granulari)	<input type="checkbox"/> Molto sciolto ( $D_r=0.0\div 0.2$ )	<input type="checkbox"/> Sciolto ( $D_r=0.2\div 0.4$ )	<input type="checkbox"/> Medio ( $D_r=0.4\div 0.6$ )	<input type="checkbox"/> Denso ( $D_r=0.6\div 0.8$ )	<input type="checkbox"/> Molto denso ( $D_r=0.8\div 1.0$ )	
<b>Consistenza</b> (Terreni coesivi)	<input type="checkbox"/> Molto molle ( $I_c < 0.0$ )	<input type="checkbox"/> Molle ( $I_c=0.0\div 0.5$ )	<input type="checkbox"/> Media ( $I_c=0.5\div 1.0$ )	<input type="checkbox"/> Consistente ( $I_c > 1.0$ )	<input checked="" type="checkbox"/> Molto consist. ( $I_c \gg 1.0$ )	
<b>Grado di umidità</b>	<input type="checkbox"/> Asciutto	<input checked="" type="checkbox"/> Poco Umido	<input type="checkbox"/> Umido		<input type="checkbox"/> Molto Umido	
<b>Alterazione</b>	<input checked="" type="checkbox"/> Assente	<input type="checkbox"/> Debole	<input type="checkbox"/> Media	<input type="checkbox"/> Elevata		
<b>Struttura</b>	<input checked="" type="checkbox"/> Omogenea	Leggermente Stratificata	<input type="checkbox"/> Scagliosa	<input type="checkbox"/> Laminata	Caotica	
<b>Fratturazione</b>	<input checked="" type="checkbox"/> Assente	<input type="checkbox"/> Moderata	<input type="checkbox"/> Elevata			
<b>Cementazione</b>	<input checked="" type="checkbox"/> Assente	<input type="checkbox"/> Debole	<input type="checkbox"/> Media	<input type="checkbox"/> Elevata		

Proprietà fisiche			Proprietà meccaniche	
n,γ,w	X		TXC	Compressione uniassiale
Analisi granulometrica	X		TX-UU	
Limiti	X		TX-CIU	
CaCO <sub>3</sub>			TX-CID	
Sostanze organiche			TX-Ciclica	x
Peso specifico del solido		TX-CIU	Taglio anulare	
Proctor			Taglio diretto	
CBR			RC TS	x
Altro _____			Altro _____	



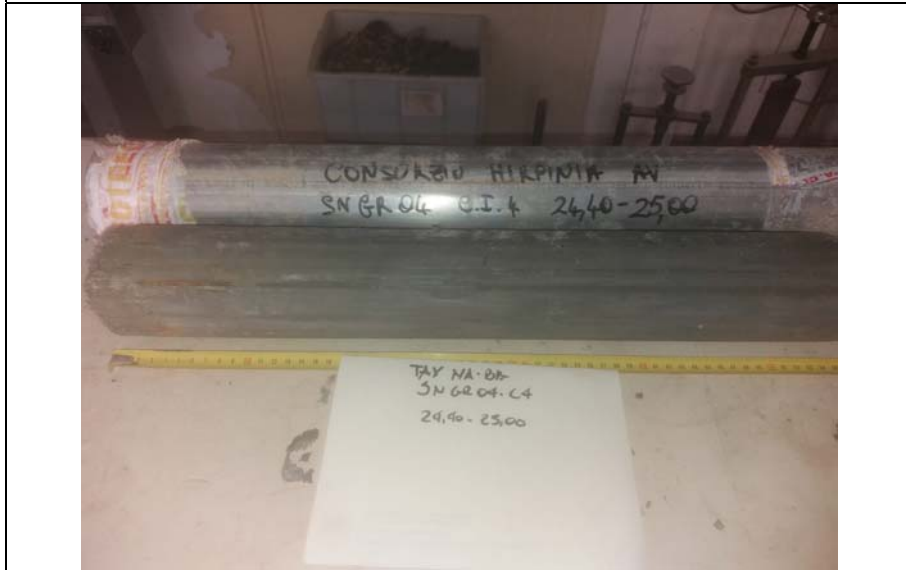
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<u>Sondaggio</u>	SNGR04
<u>Campione</u>	C4
<u>Profondità</u>	24,40 ÷ 25,00 m
<u>Data apertura</u>	24/01/20
<u>Operatore</u>	Alfredo Ponzio

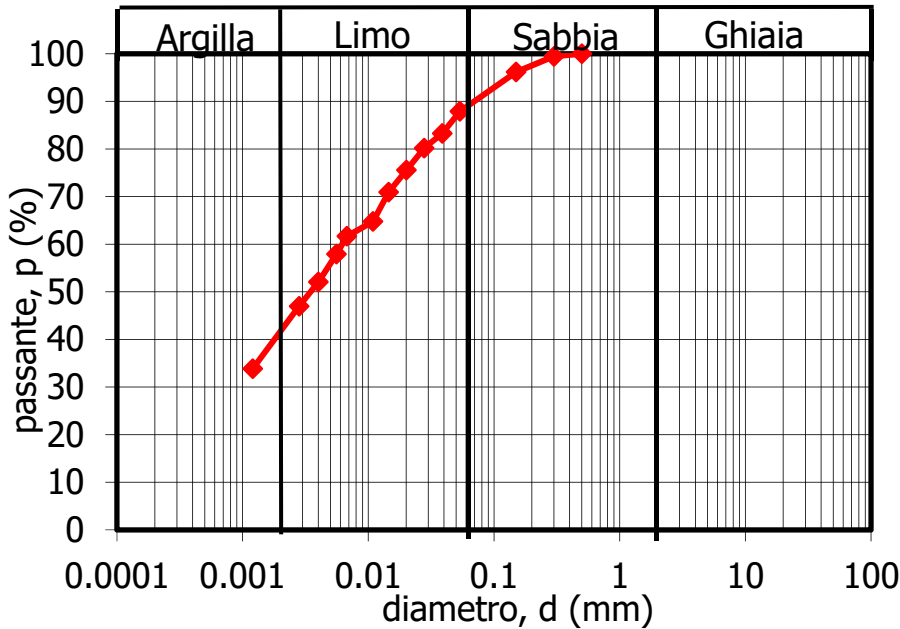
FOTO CAMPIONE





Università degli Studi di Napoli  
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 Laboratorio di Geotecnica

Committente	Consorzio HirpiniaAV
Indagine	I lotto funzionale Apice-Hirpinia
Sondaggio	SNGR04
Campione	C4
Profondità	24.40 ±25.00 m
Data	24/01/2020
Operatore	Alfredo Ponzo



Curva granulometrica	
diametro (mm)	passante (%)
0.50	100.00
0.30	99.45
0.15	96.18
0.05	87.91
0.04	83.28
0.03	80.20
0.02	75.57
0.015	70.94
0.011	64.78
0.007	61.69
0.006	57.94
0.004	52.07
0.003	46.98
0.001	33.87

**LIMO CON ARGILLA SABBIOSO**

peso secco totale (g)	peso secco sediment. (g)
51.42	51.42

STACCIATURA			SEDIMENTAZIONE		
d (mm)	peso trattenuto (g)	peso passante (g)	tempo (min)	temperatura (°C)	lettura areometro (g/cm <sup>3</sup> )
0.50	0.00	50.78		20	
0.30	0.28	50.50	0.5	20	1.03
0.15	1.94	48.84	1	20	1.0285
			2	20	1.0275
			4	20	1.026
			8	20	1.0245
			15	20	1.0225
			40	20	1.0215
			60	20.25	1.02025
			120	21	1.01825
			240	23.5	1.01625
			1440	23.5	1.012

Gs= 2.766

%<0.075mm	%ghiaia	%sabbia	%limo	%argilla	D <sub>max</sub> (mm)	D <sub>60</sub> (mm)	D <sub>10</sub> (mm)
92	0	10	49	41	0.50	0.0060	

Normativa di riferimento : ASTM 422/90

il responsabile della sperimentazione  
 prof. ing. Anna d'Onofrio





Università degli studi di Napoli Federico II  
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Laboratorio di Geotecnica

Committente	Consorzio HirpiniaAV
Indagine	Apice-Hirpinia
Sondaggio	SNGR04
Campione	C4
Profondità	24.40-25.00
Data	24/01/2020
Operatore	Alfredo Ponzo

Peso specifico del solido	
Peso specifico dell'acqua ( $\gamma_w$ ) (g/cm <sup>3</sup> )	1.000
picnometro n°	XX
Peso picnometro ( $P_p$ ) (g)	41.91
Peso picnometro + acqua ( $P_{pw}$ ) (g)	139.930
Volume picnometro ( $V_p$ ) (cm <sup>3</sup> )	98.02
Peso picnometro + terreno ( $P_{ps}$ ) (g)	57.65
Peso terreno ( $P_s$ )	15.74
Peso picnometro + terreno + acqua ( $P_{psw}$ ) (g)	149.980
Volume acqua aggiunta ( $V_w$ ) (cm <sup>3</sup> )	92.33
Volume terreno ( $V_s$ ) (cm <sup>3</sup> )	5.690
Peso specifico del terreno ( $\gamma_s$ ) (kN/m <sup>3</sup> )	27.126

Caratteristiche Fisiche Generali			
pesafiltro n°	5		
Peso contenitore ( $P_c$ ) (g)	15.98		
Diametro (D) (mm)	35.60		
Altezza (H) (mm)	72.00		
Volume (V) (cm <sup>3</sup> )	71.63		
Peso lordo umido ( $P_u$ ) (g)	140.73		
Peso lordo secco ( $P_s$ ) (g)	109.43		
Contenuto d'acqua (w)	0.33		
Peso umido unità di volume ( $\gamma$ ) (kN/m <sup>3</sup> )	17.08		
Peso secco unità di volume ( $\gamma_d$ ) (kN/m <sup>3</sup> )	12.79		
Peso specifico del solido ( $\gamma_s$ ) (kN/m <sup>3</sup> )	27.13		
Porosità (n)	0.53		
Indice dei vuoti (e)	1.12		
Grado di Saturazione ( $S_r$ )	0.8		

Il responsabile della sperimentazione

  
Prof. Ing. Anna d'Onofrio



Università degli Studi di Napoli Federico II  
Dipartimento di Ingegneria Idraulica,  
Geotecnica ed Ambientale

Prova Compressione Triassiale n.		Celle n.
Prova tipo	TXC	
Committente	Consorzio Hirpinia AV	
Indagine	I lotto funzionale Apice-Hirpinia	
Sondaggio	SNGR04	
Campione	C4	
Profondità	24.40 ÷ 25.00 m	

Condizioni inizio prova		Consolidazione		Condizioni fine prova	
		Pressione di cella $\sigma_c$ kPa	650		
altezza $h_0$ mm	76.42	Contropressione $u_0$ kPa	200	altezza $h$ mm	75.00
diametro $d$ mm	37.82	Tensione effettiva $\sigma'_c$ kPa	450	diametro $d$ mm	38.10
peso umido iniziale g	167.15			Pesafiltro n° 37 g	15.56
Peso specifico $\gamma_s$ kN/m <sup>3</sup>	27.13			Pf + prov. umido g	180.30
<b>Peso secco dell'udv <math>\gamma_d</math></b> kN/m <sup>3</sup>	14.36			Pf + prov.secco g	141.24
Contenuto d'acqua $w$	0.330			Peso specifico $\gamma_s$ kN/m <sup>3</sup>	27.13
<b>Peso umido dell'udv <math>\gamma</math></b> kN/m <sup>3</sup>	19.10			<b>Peso secco dell'udv <math>\gamma_d</math></b> kN/m <sup>3</sup>	14.42
Indice dei vuoti $e$	0.889			Contenuto d'acqua $w$	0.311
Grado di saturazione $S_r$	1.0			<b>Peso umido dell'udv <math>\gamma</math></b> kN/m <sup>3</sup>	18.90
				Indice dei vuoti $e$	0.881
				Grado di saturazione $S_r$	1.0

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
tempo	cella di carico	u	LVDT			
(min)	kN	(kPa)	$\delta$ (mm)			
0.00	0.011	200.3	0.0018			
0.03	0.013	200.3	0.0018			
0.07	0.015	200.3	0.0036			
0.10	0.019	200.4	0.0036			
0.13	0.021	200.4	0.0044			
0.18	0.023	200.4	0.0053			
0.22	0.023	200.4	0.0053			
0.23	0.026	200.4	0.0062			
0.27	0.026	200.5	0.0071			
0.30	0.028	200.5	0.008			
0.33	0.031	200.6	0.0089			
0.37	0.034	200.6	0.0098			
0.40	0.036	200.7	0.0107			
0.43	0.04	200.7	0.0107			
0.47	0.04	200.7	0.0124			
0.50	0.04	200.7	0.0124			
0.53	0.045	200.8	0.0142			
0.57	0.045	200.8	0.0142			
0.60	0.048	200.9	0.0151			
0.63	0.049	200.9	0.016			
0.67	0.053	201	0.016			
0.70	0.055	201	0.0178			
0.73	0.055	201	0.0186			
0.77	0.057	201.1	0.0195			
0.80	0.062	201.2	0.0213			
0.83	0.063	201.2	0.0222			
0.87	0.063	201.2	0.0222			
0.90	0.066	201.3	0.0222			
0.93	0.069	201.3	0.024			
0.97	0.069	201.4	0.0249			
1.00	0.07	201.4	0.0257			
1.03	0.073	201.5	0.0275			
1.07	0.077	201.5	0.0284			
1.10	0.077	201.6	0.0293			
1.13	0.082	201.7	0.0293			
1.17	0.082	201.7	0.0311			
1.20	0.082	201.7	0.032			
1.23	0.083	201.8	0.0328			
1.27	0.086	201.8	0.0346			
1.30	0.09	201.9	0.0355			
1.33	0.09	201.9	0.0364			
1.37	0.093	202	0.0364			
1.40	0.095	202	0.0382			
1.43	0.095	202.1	0.0391			
1.47	0.098	202.1	0.0408			
1.50	0.101	202.2	0.0426			
1.53	0.104	202.3	0.0435			
1.57	0.103	202.3	0.0444			
1.60	0.105	202.4	0.0444			
1.65	0.107	202.4	0.047			
1.68	0.109	202.5	0.0479			
1.70	0.112	202.6	0.0479			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
1.73	0.116	202.7	0.0488			
1.77	0.116	202.7	0.0506			
1.80	0.114	202.7	0.0506			
1.83	0.118	202.8	0.0524			
1.87	0.12	202.8	0.0541			
1.90	0.122	202.9	0.0559			
1.93	0.125	203	0.0559			
1.97	0.127	203	0.0577			
2.00	0.127	203	0.0586			
2.03	0.128	203.1	0.0595			
2.07	0.129	203.2	0.0612			
2.10	0.132	203.3	0.0621			
2.13	0.137	203.4	0.0657			
2.17	0.138	203.5	0.0657			
2.20	0.138	203.5	0.0666			
2.23	0.138	203.5	0.0675			
2.27	0.14	203.6	0.0692			
2.30	0.143	203.6	0.071			
2.33	0.144	203.7	0.0719			
2.37	0.143	203.8	0.0728			
2.40	0.148	203.8	0.0728			
2.43	0.15	203.8	0.0746			
2.47	0.15	203.9	0.0763			
2.50	0.151	204	0.0781			
2.53	0.156	204.1	0.0808			
2.57	0.156	204.1	0.0817			
2.60	0.157	204.2	0.0826			
2.63	0.159	204.3	0.0826			
2.67	0.162	204.3	0.0843			
2.70	0.162	204.4	0.0861			
2.73	0.162	204.4	0.0879			
2.77	0.164	204.5	0.0897			
2.80	0.166	204.6	0.0905			
2.83	0.166	204.6	0.0914			
2.87	0.169	204.7	0.0914			
2.90	0.171	204.7	0.0941			
2.93	0.171	204.8	0.0959			
2.97	0.175	204.9	0.0985			
3.00	0.175	204.9	0.0994			
3.03	0.176	205	0.1012			
3.07	0.177	205.1	0.103			
3.12	0.179	205.1	0.1039			
3.13	0.18	205.2	0.1056			
3.17	0.179	205.3	0.1065			
3.20	0.183	205.3	0.1065			
3.23	0.185	205.4	0.1083			
3.27	0.185	205.4	0.1101			
3.30	0.188	205.5	0.1127			
3.33	0.188	205.6	0.1136			
3.37	0.187	205.6	0.1145			
3.40	0.189	205.7	0.1163			
3.43	0.192	205.8	0.1163			
3.47	0.193	205.8	0.1189			
3.50	0.193	205.8	0.1198			
3.53	0.196	205.9	0.1225			
3.57	0.195	206	0.1234			
3.60	0.197	206	0.1252			
3.63	0.2	206.1	0.1278			
3.67	0.201	206.2	0.1278			
3.70	0.201	206.2	0.1287			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
3.73	0.201	206.3	0.1296			
3.77	0.202	206.3	0.1323			
3.80	0.203	206.4	0.1331			
3.83	0.204	206.5	0.1349			
3.87	0.205	206.5	0.1358			
3.90	0.206	206.6	0.1358			
3.93	0.208	206.6	0.1376			
3.97	0.208	206.7	0.1394			
4.00	0.211	206.8	0.142			
4.03	0.211	206.8	0.1429			
4.07	0.211	206.9	0.1438			
4.10	0.21	206.9	0.1447			
4.13	0.213	207	0.1447			
4.17	0.214	207	0.1473			
4.20	0.214	207.1	0.1482			
4.23	0.216	207.1	0.15			
4.27	0.216	207.2	0.1509			
4.30	0.219	207.3	0.1536			
4.33	0.218	207.3	0.1544			
4.37	0.218	207.4	0.1544			
4.40	0.218	207.4	0.1562			
4.43	0.218	207.5	0.1571			
4.47	0.22	207.5	0.1589			
4.50	0.222	207.6	0.1607			
4.55	0.224	207.7	0.1633			
4.58	0.224	207.8	0.1642			
4.60	0.223	207.8	0.1651			
4.63	0.222	207.9	0.1651			
4.67	0.226	208	0.1687			
4.70	0.227	208	0.1687			
4.73	0.226	208.1	0.1695			
4.77	0.226	208.1	0.1704			
4.80	0.226	208.1	0.1713			
4.83	0.226	208.2	0.1722			
4.87	0.23	208.2	0.1749			
4.90	0.228	208.3	0.1749			
4.93	0.228	208.3	0.1749			
4.97	0.228	208.4	0.1758			
5.00	0.228	208.4	0.1766			
5.03	0.229	208.5	0.1784			
5.07	0.233	208.5	0.1802			
5.10	0.232	208.6	0.1811			
5.13	0.231	208.6	0.182			
5.17	0.231	208.7	0.182			
5.20	0.231	208.7	0.182			
5.23	0.231	208.7	0.1829			
5.27	0.232	208.8	0.1846			
5.30	0.235	208.9	0.1864			
5.33	0.234	208.9	0.1873			
5.37	0.233	208.9	0.1873			
5.40	0.233	209	0.1873			
5.43	0.233	209	0.1882			
5.47	0.233	209	0.1891			
5.50	0.234	209.1	0.19			
5.53	0.234	209.1	0.1908			
5.57	0.233	209.2	0.1908			
5.60	0.234	209.2	0.1917			
5.63	0.234	209.3	0.1917			
5.67	0.235	209.3	0.1935			
5.70	0.235	209.3	0.1944			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
5.73	0.236	209.4	0.1953			
5.77	0.235	209.4	0.1953			
5.80	0.234	209.4	0.1953			
5.83	0.233	209.5	0.1953			
5.87	0.233	209.5	0.1953			
5.90	0.235	209.6	0.1971			
5.93	0.235	209.6	0.1971			
5.97	0.234	209.6	0.1971			
6.02	0.233	209.7	0.1988			
6.05	0.233	209.7	0.1979			
6.07	0.235	209.7	0.1988			
6.10	0.233	209.8	0.1988			
6.13	0.234	209.8	0.1997			
6.17	0.233	209.8	0.1997			
6.20	0.232	209.9	0.1997			
6.23	0.232	209.9	0.1997			
6.27	0.232	209.9	0.2006			
6.30	0.232	209.9	0.2006			
6.33	0.232	210	0.2015			
6.37	0.231	210	0.2015			
6.40	0.231	210	0.2015			
6.43	0.231	210	0.2015			
6.47	0.23	210.1	0.2015			
6.50	0.23	210.1	0.2015			
6.53	0.228	210.1	0.2015			
6.57	0.228	210.1	0.2015			
6.60	0.23	210.2	0.2024			
6.63	0.228	210.2	0.2015			
6.67	0.227	210.2	0.2015			
6.70	0.225	210.2	0.2024			
6.73	0.225	210.2	0.2024			
6.77	0.227	210.3	0.2024			
6.80	0.227	210.3	0.2024			
6.83	0.225	210.3	0.2024			
6.87	0.224	210.3	0.2015			
6.90	0.223	210.4	0.2015			
6.93	0.222	210.4	0.2015			
6.97	0.222	210.4	0.2006			
7.00	0.22	210.4	0.2006			
7.03	0.222	210.4	0.2015			
7.07	0.219	210.4	0.2006			
7.10	0.219	210.4	0.2006			
7.13	0.22	210.5	0.2006			
7.17	0.217	210.5	0.2015			
7.20	0.217	210.5	0.1997			
7.23	0.216	210.5	0.1997			
7.27	0.217	210.5	0.2006			
7.30	0.215	210.5	0.1997			
7.33	0.214	210.5	0.1988			
7.37	0.212	210.5	0.1988			
7.40	0.21	210.5	0.1988			
7.45	0.21	210.5	0.1979			
7.48	0.212	210.6	0.1979			
7.50	0.21	210.6	0.1988			
7.53	0.21	210.6	0.1979			
7.57	0.206	210.5	0.1971			
7.60	0.206	210.6	0.1971			
7.63	0.205	210.6	0.1962			
7.67	0.206	210.6	0.1971			
7.70	0.205	210.6	0.1971			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
7.73	0.199	210.6	0.1962		
7.77	0.199	210.6	0.1944		
7.80	0.2	210.6	0.1953		
7.83	0.202	210.6	0.1953		
7.87	0.199	210.6	0.1944		
7.90	0.197	210.6	0.1935		
7.93	0.196	210.6	0.1935		
7.97	0.194	210.6	0.1926		
8.00	0.194	210.6	0.1917		
8.03	0.191	210.6	0.1908		
8.07	0.191	210.5	0.1908		
8.10	0.19	210.5	0.1908		
8.13	0.191	210.6	0.1908		
8.17	0.188	210.5	0.1908		
8.20	0.183	210.5	0.1882		
8.23	0.183	210.5	0.1882		
8.27	0.186	210.5	0.1882		
8.30	0.184	210.5	0.1873		
8.33	0.179	210.5	0.1855		
8.37	0.179	210.5	0.1855		
8.40	0.18	210.5	0.1855		
8.43	0.177	210.5	0.1864		
8.47	0.177	210.5	0.1846		
8.50	0.173	210.4	0.1829		
8.53	0.172	210.4	0.182		
8.57	0.173	210.4	0.1829		
8.60	0.17	210.4	0.1811		
8.63	0.168	210.4	0.1811		
8.67	0.167	210.4	0.1802		
8.70	0.167	210.4	0.1793		
8.73	0.165	210.3	0.1784		
8.77	0.163	210.3	0.1775		
8.80	0.159	210.3	0.1758		
8.83	0.159	210.3	0.1758		
8.87	0.158	210.2	0.1758		
8.92	0.156	210.2	0.1749		
8.95	0.157	210.2	0.174		
8.97	0.152	210.1	0.174		
9.00	0.151	210.1	0.1722		
9.03	0.151	210.1	0.1713		
9.07	0.149	210.1	0.1704		
9.10	0.147	210.1	0.1695		
9.13	0.146	210	0.1687		
9.17	0.145	210	0.1687		
9.20	0.143	210	0.1687		
9.23	0.137	209.9	0.166		
9.27	0.137	209.9	0.1642		
9.30	0.138	209.9	0.1642		
9.33	0.137	209.9	0.1633		
9.37	0.134	209.8	0.1616		
9.40	0.133	209.8	0.1607		
9.43	0.132	209.8	0.1607		
9.47	0.128	209.7	0.1598		
9.50	0.128	209.7	0.158		
9.53	0.127	209.7	0.1562		
9.57	0.122	209.6	0.1544		
9.60	0.121	209.6	0.1536		
9.63	0.12	209.6	0.1527		
9.67	0.118	209.5	0.1527		
9.70	0.116	209.5	0.1518		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
9.73	0.116	209.5	0.15		
9.77	0.114	209.5	0.1491		
9.80	0.111	209.4	0.1473		
9.83	0.109	209.4	0.1465		
9.87	0.107	209.3	0.1447		
9.90	0.107	209.3	0.1447		
9.93	0.1	209.2	0.1438		
9.97	0.1	209.2	0.1411		
10.00	0.101	209.2	0.1411		
10.03	0.099	209.1	0.1394		
10.07	0.095	209.1	0.1376		
10.10	0.094	209	0.1367		
10.13	0.091	209	0.1367		
10.17	0.092	209	0.1349		
10.20	0.092	209	0.1349		
10.23	0.088	208.9	0.1323		
10.27	0.083	208.8	0.1296		
10.30	0.082	208.8	0.1287		
10.35	0.081	208.7	0.1278		
10.38	0.079	208.7	0.126		
10.40	0.076	208.6	0.1243		
10.43	0.076	208.6	0.1234		
10.47	0.072	208.5	0.1234		
10.50	0.07	208.4	0.1216		
10.53	0.07	208.4	0.1198		
10.57	0.068	208.4	0.1181		
10.60	0.065	208.3	0.1163		
10.63	0.064	208.3	0.1154		
10.67	0.063	208.2	0.1136		
10.70	0.059	208.2	0.1136		
10.73	0.055	208.1	0.1118		
10.77	0.055	208.1	0.1092		
10.80	0.052	208	0.1074		
10.83	0.051	207.9	0.1056		
10.87	0.049	207.9	0.1047		
10.90	0.047	207.8	0.103		
10.93	0.045	207.8	0.103		
10.97	0.042	207.7	0.1012		
11.00	0.042	207.7	0.0994		
11.03	0.04	207.6	0.0976		
11.07	0.037	207.5	0.0959		
11.10	0.035	207.4	0.0932		
11.13	0.032	207.4	0.0923		
11.17	0.03	207.3	0.0923		
11.20	0.027	207.2	0.0897		
11.23	0.027	207.2	0.0888		
11.27	0.026	207.2	0.087		
11.30	0.023	207.1	0.0843		
11.33	0.021	207	0.0826		
11.37	0.019	207	0.0808		
11.40	0.016	206.9	0.0808		
11.43	0.012	206.8	0.0781		
11.47	0.012	206.8	0.0763		
11.50	0.011	206.7	0.0754		
11.53	0.009	206.6	0.0728		
11.57	0.005	206.6	0.071		
11.60	0.005	206.5	0.0692		
11.63	0.002	206.4	0.0692		
11.67	-0.001	206.3	0.0666		
11.70	-0.001	206.3	0.0648		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
11.73	-0.003	206.3	0.063		
11.77	-0.006	206.2	0.0604		
11.82	-0.009	206.1	0.0586		
11.85	-0.008	206	0.0577		
11.87	-0.011	205.9	0.055		
11.90	-0.015	205.9	0.0533		
11.93	-0.015	205.8	0.0515		
11.97	-0.019	205.7	0.0515		
12.00	-0.022	205.6	0.0488		
12.03	-0.022	205.6	0.0479		
12.07	-0.023	205.6	0.047		
12.10	-0.026	205.5	0.0435		
12.13	-0.028	205.4	0.0417		
12.17	-0.03	205.3	0.0399		
12.20	-0.033	205.2	0.0399		
12.23	-0.035	205.1	0.0373		
12.27	-0.035	205.1	0.0364		
12.30	-0.037	205.1	0.0337		
12.33	-0.041	204.9	0.0311		
12.37	-0.042	204.9	0.0293		
12.40	-0.045	204.8	0.0266		
12.43	-0.047	204.7	0.0266		
12.47	-0.05	204.6	0.0249		
12.50	-0.05	204.6	0.0231		
12.53	-0.051	204.5	0.0213		
12.57	-0.054	204.4	0.0186		
12.60	-0.057	204.3	0.016		
12.63	-0.059	204.2	0.0142		
12.67	-0.061	204.1	0.0142		
12.70	-0.064	204.1	0.0124		
12.73	-0.064	204.1	0.0098		
12.77	-0.064	204	0.008		
12.80	-0.068	203.9	0.0053		
12.83	-0.07	203.8	0.0036		
12.87	-0.072	203.7	0.0009		
12.90	-0.074	203.6	0.0009		
12.93	-0.077	203.5	-0.0009		
12.97	-0.077	203.5	-0.0036		
13.00	-0.078	203.4	-0.0062		
13.03	-0.082	203.3	-0.0089		
13.07	-0.084	203.2	-0.0107		
13.10	-0.085	203.1	-0.0133		
13.13	-0.087	203	-0.0133		
13.17	-0.091	202.9	-0.016		
13.20	-0.091	202.9	-0.0178		
13.23	-0.091	202.8	-0.0204		
13.28	-0.096	202.6	-0.0231		
13.30	-0.096	202.6	-0.0249		
13.33	-0.097	202.5	-0.0275		
13.37	-0.1	202.4	-0.0302		
13.40	-0.102	202.3	-0.032		
13.43	-0.103	202.2	-0.0346		
13.47	-0.106	202.1	-0.0346		
13.50	-0.109	202	-0.0382		
13.53	-0.109	202	-0.0408		
13.57	-0.11	201.9	-0.0426		
13.60	-0.111	201.8	-0.0453		
13.63	-0.114	201.7	-0.0488		
13.67	-0.116	201.6	-0.0515		
13.70	-0.118	201.5	-0.0515		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
13.73	-0.12	201.4	-0.055		
13.77	-0.12	201.4	-0.0577		
13.80	-0.122	201.3	-0.0604		
13.83	-0.124	201.2	-0.0639		
13.87	-0.126	201.1	-0.0675		
13.90	-0.128	201	-0.071		
13.93	-0.129	200.9	-0.071		
13.97	-0.133	200.7	-0.0737		
14.00	-0.133	200.7	-0.0772		
14.03	-0.133	200.7	-0.0799		
14.07	-0.136	200.5	-0.0834		
14.10	-0.138	200.4	-0.087		
14.13	-0.139	200.4	-0.0905		
14.17	-0.141	200.2	-0.0905		
14.20	-0.143	200.1	-0.0941		
14.23	-0.143	200.1	-0.0976		
14.27	-0.144	200.1	-0.1012		
14.30	-0.147	199.9	-0.1047		
14.33	-0.149	199.8	-0.1083		
14.37	-0.149	199.7	-0.1118		
14.40	-0.151	199.6	-0.1118		
14.43	-0.154	199.5	-0.1154		
14.47	-0.154	199.5	-0.1189		
14.50	-0.155	199.4	-0.1234		
14.53	-0.156	199.3	-0.1269		
14.57	-0.159	199.2	-0.1314		
14.60	-0.16	199.1	-0.1349		
14.63	-0.161	199	-0.1349		
14.67	-0.164	198.9	-0.1394		
14.72	-0.164	198.8	-0.1473		
14.75	-0.166	198.7	-0.1473		
14.77	-0.167	198.6	-0.1518		
14.80	-0.167	198.6	-0.1553		
14.83	-0.169	198.5	-0.1598		
14.87	-0.171	198.4	-0.1642		
14.90	-0.172	198.3	-0.1687		
14.93	-0.173	198.2	-0.1731		
14.97	-0.175	198.1	-0.1731		
15.00	-0.176	198	-0.1775		
15.03	-0.176	198	-0.1811		
15.07	-0.177	197.9	-0.1864		
15.10	-0.179	197.8	-0.1908		
15.13	-0.181	197.7	-0.1953		
15.17	-0.181	197.7	-0.2006		
15.20	-0.182	197.6	-0.2006		
15.23	-0.185	197.5	-0.205		
15.27	-0.185	197.5	-0.2104		
15.30	-0.185	197.4	-0.2148		
15.33	-0.186	197.3	-0.2201		
15.37	-0.189	197.2	-0.2255		
15.40	-0.189	197.1	-0.2308		
15.43	-0.19	197	-0.2308		
15.47	-0.192	197	-0.2352		
15.50	-0.192	197	-0.2406		
15.53	-0.193	196.9	-0.2459		
15.57	-0.194	196.8	-0.2512		
15.60	-0.196	196.7	-0.2565		
15.63	-0.196	196.6	-0.261		
15.67	-0.197	196.5	-0.261		
15.70	-0.199	196.4	-0.2663		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
15.73	-0.199	196.4	-0.2725		
15.77	-0.199	196.4	-0.2769		
15.80	-0.2	196.3	-0.2823		
15.83	-0.201	196.2	-0.2876		
15.87	-0.202	196.1	-0.2938		
15.90	-0.203	196	-0.2938		
15.93	-0.204	195.9	-0.2991		
15.97	-0.204	195.9	-0.3053		
16.00	-0.205	195.9	-0.3107		
16.03	-0.206	195.8	-0.316		
16.07	-0.207	195.7	-0.3213		
16.10	-0.207	195.6	-0.3267		
16.13	-0.209	195.6	-0.3267		
16.18	-0.209	195.5	-0.3382		
16.22	-0.209	195.4	-0.3426		
16.23	-0.211	195.3	-0.348		
16.27	-0.211	195.3	-0.348		
16.30	-0.211	195.3	-0.3533		
16.33	-0.211	195.2	-0.3586		
16.37	-0.212	195.2	-0.3639		
16.40	-0.213	195.1	-0.3693		
16.43	-0.214	195	-0.3746		
16.47	-0.214	194.9	-0.3799		
16.50	-0.215	194.9	-0.3799		
16.53	-0.215	194.9	-0.3843		
16.57	-0.215	194.8	-0.3897		
16.60	-0.216	194.7	-0.395		
16.63	-0.216	194.7	-0.3994		
16.67	-0.217	194.6	-0.4048		
16.70	-0.217	194.6	-0.4083		
16.73	-0.218	194.5	-0.4083		
16.77	-0.218	194.5	-0.4136		
16.80	-0.218	194.5	-0.4181		
16.83	-0.218	194.4	-0.4225		
16.87	-0.219	194.4	-0.427		
16.90	-0.219	194.3	-0.4314		
16.93	-0.219	194.3	-0.4314		
16.97	-0.22	194.2	-0.4358		
17.00	-0.22	194.2	-0.4403		
17.03	-0.219	194.2	-0.4438		
17.07	-0.22	194.1	-0.4483		
17.10	-0.22	194.1	-0.4527		
17.13	-0.22	194	-0.4562		
17.17	-0.221	194	-0.4598		
17.20	-0.221	194	-0.4598		
17.23	-0.221	194	-0.4633		
17.27	-0.22	193.9	-0.4669		
17.30	-0.221	193.9	-0.4704		
17.33	-0.22	193.9	-0.4731		
17.37	-0.221	193.8	-0.4776		
17.40	-0.221	193.8	-0.4802		
17.43	-0.221	193.8	-0.4802		
17.47	-0.221	193.8	-0.4829		
17.50	-0.221	193.8	-0.4855		
17.53	-0.221	193.7	-0.4882		
17.57	-0.221	193.7	-0.4909		
17.62	-0.221	193.7	-0.4935		
17.65	-0.221	193.6	-0.4962		
17.67	-0.221	193.6	-0.498		
17.70	-0.22	193.6	-0.5006		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
17.73	-0.22	193.6	-0.5024		
17.77	-0.219	193.6	-0.5024		
17.80	-0.219	193.6	-0.5042		
17.83	-0.219	193.6	-0.506		
17.87	-0.219	193.5	-0.5086		
17.90	-0.219	193.5	-0.5095		
17.93	-0.219	193.5	-0.5113		
17.97	-0.218	193.5	-0.5131		
18.00	-0.218	193.5	-0.5131		
18.03	-0.217	193.5	-0.5139		
18.07	-0.217	193.5	-0.5148		
18.10	-0.217	193.5	-0.5166		
18.13	-0.216	193.5	-0.5175		
18.17	-0.216	193.5	-0.5184		
18.20	-0.216	193.5	-0.5202		
18.23	-0.215	193.5	-0.5202		
18.27	-0.215	193.5	-0.521		
18.30	-0.215	193.5	-0.5219		
18.33	-0.214	193.5	-0.5219		
18.37	-0.213	193.5	-0.5228		
18.40	-0.213	193.5	-0.5237		
18.43	-0.212	193.5	-0.5237		
18.47	-0.211	193.5	-0.5237		
18.50	-0.211	193.5	-0.5237		
18.53	-0.211	193.5	-0.5246		
18.57	-0.21	193.5	-0.5246		
18.60	-0.209	193.5	-0.5246		
18.63	-0.207	193.5	-0.5246		
18.67	-0.209	193.5	-0.5255		
18.70	-0.208	193.5	-0.5255		
18.73	-0.207	193.5	-0.5255		
18.77	-0.207	193.6	-0.5255		
18.80	-0.206	193.6	-0.5246		
18.83	-0.204	193.6	-0.5246		
18.87	-0.203	193.6	-0.5246		
18.90	-0.203	193.6	-0.5246		
18.93	-0.201	193.7	-0.5246		
18.97	-0.201	193.7	-0.5237		
19.00	-0.201	193.7	-0.5246		
19.03	-0.2	193.7	-0.5237		
19.08	-0.198	193.7	-0.5237		
19.12	-0.198	193.8	-0.5228		
19.13	-0.197	193.8	-0.5228		
19.17	-0.196	193.8	-0.5228		
19.20	-0.195	193.8	-0.5219		
19.23	-0.194	193.8	-0.5219		
19.27	-0.193	193.9	-0.5219		
19.30	-0.192	193.9	-0.521		
19.33	-0.192	193.9	-0.5202		
19.37	-0.191	193.9	-0.5202		
19.40	-0.188	194	-0.5184		
19.43	-0.188	194	-0.5184		
19.47	-0.187	194	-0.5175		
19.50	-0.185	194.1	-0.5175		
19.53	-0.184	194.1	-0.5166		
19.57	-0.184	194.1	-0.5157		
19.60	-0.183	194.2	-0.5157		
19.63	-0.181	194.2	-0.5148		
19.67	-0.181	194.2	-0.5139		
19.70	-0.18	194.3	-0.5131		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
19.73	-0.177	194.3	-0.5131		
19.77	-0.176	194.3	-0.5122		
19.80	-0.176	194.4	-0.5113		
19.83	-0.175	194.4	-0.5104		
19.87	-0.173	194.5	-0.5095		
19.90	-0.172	194.5	-0.5095		
19.93	-0.171	194.5	-0.5077		
19.97	-0.169	194.6	-0.5077		
20.00	-0.167	194.6	-0.5068		
20.03	-0.167	194.6	-0.506		
20.07	-0.166	194.7	-0.5051		
20.10	-0.164	194.7	-0.5042		
20.13	-0.163	194.8	-0.5033		
20.17	-0.161	194.9	-0.5024		
20.20	-0.159	194.9	-0.5024		
20.23	-0.158	194.9	-0.5015		
20.27	-0.158	195	-0.5006		
20.30	-0.156	195	-0.4997		
20.33	-0.154	195.1	-0.498		
20.37	-0.153	195.2	-0.4971		
20.40	-0.151	195.2	-0.4962		
20.43	-0.149	195.3	-0.4962		
20.47	-0.147	195.3	-0.4953		
20.52	-0.147	195.4	-0.4935		
20.55	-0.146	195.4	-0.4935		
20.57	-0.143	195.4	-0.4926		
20.60	-0.143	195.5	-0.4909		
20.63	-0.141	195.6	-0.4891		
20.67	-0.14	195.7	-0.4882		
20.70	-0.138	195.7	-0.4864		
20.73	-0.136	195.8	-0.4855		
20.77	-0.133	195.9	-0.4855		
20.80	-0.132	195.9	-0.4838		
20.83	-0.132	195.9	-0.4829		
20.87	-0.131	196	-0.4811		
20.90	-0.127	196.1	-0.4802		
20.93	-0.127	196.1	-0.4793		
20.97	-0.125	196.2	-0.4767		
21.00	-0.122	196.3	-0.4767		
21.03	-0.121	196.3	-0.4749		
21.07	-0.121	196.3	-0.474		
21.10	-0.119	196.4	-0.4722		
21.13	-0.115	196.5	-0.4704		
21.17	-0.115	196.6	-0.4696		
21.20	-0.113	196.7	-0.4678		
21.23	-0.11	196.8	-0.4678		
21.27	-0.108	196.8	-0.466		
21.30	-0.108	196.8	-0.4642		
21.33	-0.107	196.9	-0.4625		
21.37	-0.104	197	-0.4607		
21.40	-0.103	197.1	-0.4598		
21.43	-0.101	197.2	-0.4571		
21.47	-0.097	197.3	-0.4571		
21.50	-0.097	197.3	-0.4554		
21.53	-0.097	197.3	-0.4545		
21.57	-0.094	197.4	-0.4518		
21.60	-0.091	197.5	-0.45		
21.63	-0.09	197.5	-0.4483		
21.67	-0.088	197.6	-0.4465		
21.70	-0.084	197.7	-0.4465		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
21.73	-0.083	197.7	-0.4447		
21.77	-0.083	197.8	-0.4429		
21.80	-0.082	197.9	-0.4412		
21.83	-0.078	198	-0.4385		
21.87	-0.077	198.1	-0.4367		
21.90	-0.075	198.2	-0.4349		
21.93	-0.071	198.3	-0.4349		
21.98	-0.071	198.4	-0.4314		
22.02	-0.069	198.5	-0.4287		
22.03	-0.065	198.6	-0.4287		
22.07	-0.064	198.6	-0.427		
22.10	-0.064	198.6	-0.4252		
22.13	-0.062	198.8	-0.4225		
22.17	-0.059	198.8	-0.4207		
22.20	-0.057	198.9	-0.419		
22.23	-0.056	199	-0.4163		
22.27	-0.051	199.2	-0.4163		
22.30	-0.051	199.2	-0.4136		
22.33	-0.051	199.3	-0.4128		
22.37	-0.048	199.4	-0.4101		
22.40	-0.045	199.5	-0.4074		
22.43	-0.044	199.6	-0.4057		
22.47	-0.042	199.7	-0.4039		
22.50	-0.038	199.8	-0.4039		
22.53	-0.036	199.8	-0.4012		
22.57	-0.036	199.9	-0.3994		
22.60	-0.035	200	-0.3968		
22.63	-0.031	200.1	-0.3941		
22.67	-0.03	200.2	-0.3923		
22.70	-0.028	200.3	-0.3897		
22.73	-0.024	200.4	-0.3897		
22.77	-0.023	200.4	-0.387		
22.80	-0.023	200.5	-0.3852		
22.83	-0.02	200.6	-0.3817		
22.87	-0.016	200.7	-0.379		
22.90	-0.016	200.8	-0.3772		
22.93	-0.013	200.9	-0.3737		
22.97	-0.01	201	-0.3737		
23.00	-0.008	201	-0.371		
23.03	-0.008	201.1	-0.3693		
23.07	-0.007	201.3	-0.3657		
23.10	-0.003	201.4	-0.363		
23.13	-0.001	201.5	-0.3613		
23.17	0.001	201.6	-0.3586		
23.20	0.004	201.7	-0.3586		
23.23	0.006	201.7	-0.3551		
23.27	0.006	201.8	-0.3533		
23.30	0.008	202	-0.3497		
23.33	0.012	202.1	-0.3471		
23.37	0.012	202.2	-0.3444		
23.40	0.015	202.3	-0.3417		
23.45	0.017	202.4	-0.34		
23.48	0.02	202.5	-0.3373		
23.50	0.021	202.6	-0.3346		
23.53	0.025	202.7	-0.3346		
23.57	0.025	202.7	-0.332		
23.60	0.025	202.8	-0.3293		
23.63	0.028	202.9	-0.3258		
23.67	0.032	203.1	-0.3231		
23.70	0.034	203.2	-0.3204		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
23.73	0.035	203.3	-0.3178			
23.77	0.038	203.4	-0.3178			
23.80	0.041	203.4	-0.3151			
23.83	0.041	203.5	-0.3116			
23.87	0.042	203.6	-0.3089			
23.90	0.046	203.8	-0.3062			
23.93	0.048	203.9	-0.3036			
23.97	0.049	204	-0.3009			
24.00	0.053	204.1	-0.3009			
24.03	0.055	204.1	-0.2974			
24.07	0.055	204.2	-0.2947			
24.10	0.056	204.3	-0.2903			
24.13	0.06	204.4	-0.2867			
24.17	0.061	204.6	-0.284			
24.20	0.064	204.7	-0.2814			
24.23	0.067	204.8	-0.2814			
24.27	0.069	204.8	-0.2778			
24.30	0.069	204.9	-0.2752			
24.33	0.07	205	-0.2725			
24.37	0.073	205.1	-0.269			
24.40	0.076	205.2	-0.2663			
24.43	0.077	205.3	-0.2627			
24.47	0.08	205.5	-0.2627			
24.50	0.083	205.5	-0.2601			
24.53	0.083	205.6	-0.2565			
24.57	0.083	205.7	-0.2539			
24.60	0.087	205.8	-0.2503			
24.63	0.089	205.9	-0.2477			
24.67	0.09	206	-0.2441			
24.70	0.094	206.1	-0.2441			
24.73	0.095	206.1	-0.2406			
24.77	0.095	206.2	-0.2379			
24.80	0.098	206.3	-0.2343			
24.83	0.101	206.5	-0.2308			
24.88	0.102	206.6	-0.2281			
24.92	0.103	206.7	-0.2263			
24.93	0.106	206.8	-0.2228			
24.97	0.108	206.9	-0.2201			
25.00	0.111	207	-0.2166			
25.03	0.111	207.1	-0.2166			
25.07	0.114	207.1	-0.2148			
25.10	0.114	207.2	-0.2113			
25.13	0.115	207.3	-0.2086			
25.17	0.118	207.4	-0.205			
25.20	0.12	207.5	-0.2015			
25.23	0.122	207.7	-0.1988			
25.27	0.125	207.8	-0.1988			
25.30	0.126	207.8	-0.1953			
25.33	0.126	207.9	-0.1926			
25.37	0.127	208	-0.19			
25.40	0.13	208.1	-0.1864			
25.43	0.132	208.2	-0.1829			
25.47	0.134	208.3	-0.1802			
25.50	0.138	208.5	-0.1802			
25.53	0.137	208.5	-0.1766			
25.57	0.137	208.6	-0.1749			
25.60	0.139	208.7	-0.1713			
25.63	0.143	208.8	-0.1678			
25.67	0.144	208.9	-0.1651			
25.70	0.146	209	-0.1616			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
25.73	0.148	209.1	-0.1616			
25.77	0.15	209.1	-0.158			
25.80	0.15	209.2	-0.1553			
25.83	0.15	209.3	-0.1527			
25.87	0.154	209.4	-0.1491			
25.90	0.157	209.6	-0.1447			
25.93	0.155	209.6	-0.1438			
25.97	0.158	209.7	-0.1438			
26.00	0.16	209.7	-0.1402			
26.03	0.16	209.8	-0.1376			
26.07	0.161	209.9	-0.134			
26.10	0.165	210.1	-0.1314			
26.13	0.168	210.2	-0.1269			
26.17	0.165	210.3	-0.126			
26.20	0.168	210.4	-0.126			
26.23	0.17	210.4	-0.1234			
26.27	0.17	210.5	-0.1198			
26.30	0.171	210.6	-0.1163			
26.35	0.175	210.7	-0.1136			
26.38	0.175	210.8	-0.111			
26.40	0.176	210.9	-0.1074			
26.43	0.179	211	-0.1039			
26.47	0.179	211.1	-0.1021			
26.50	0.182	211.2	-0.0976			
26.53	0.183	211.3	-0.0976			
26.57	0.182	211.3	-0.095			
26.60	0.182	211.4	-0.0941			
26.63	0.185	211.5	-0.0897			
26.67	0.188	211.6	-0.0861			
26.70	0.19	211.7	-0.0834			
26.73	0.189	211.8	-0.0826			
26.77	0.19	211.9	-0.0826			
26.80	0.192	211.9	-0.0799			
26.83	0.192	212	-0.0754			
26.87	0.195	212.1	-0.0728			
26.90	0.195	212.2	-0.071			
26.93	0.197	212.3	-0.0683			
26.97	0.197	212.4	-0.063			
27.00	0.201	212.5	-0.063			
27.03	0.199	212.5	-0.0612			
27.07	0.199	212.5	-0.0595			
27.10	0.201	212.6	-0.0568			
27.13	0.203	212.7	-0.0533			
27.17	0.206	212.8	-0.0506			
27.20	0.205	212.9	-0.0488			
27.23	0.206	213	-0.0488			
27.27	0.207	213	-0.047			
27.30	0.207	213.1	-0.0435			
27.33	0.21	213.2	-0.0399			
27.37	0.209	213.3	-0.0391			
27.40	0.21	213.4	-0.0364			
27.43	0.212	213.5	-0.0328			
27.47	0.213	213.5	-0.0328			
27.50	0.214	213.5	-0.0311			
27.53	0.214	213.6	-0.0293			
27.57	0.214	213.7	-0.0275			
27.60	0.218	213.8	-0.024			
27.63	0.217	213.9	-0.0222			
27.67	0.215	213.9	-0.0213			
27.70	0.218	214	-0.0213			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
27.73	0.219	214	-0.0186		
27.78	0.223	214.2	-0.0133		
27.82	0.22	214.2	-0.0133		
27.83	0.22	214.2	-0.0133		
27.87	0.22	214.3	-0.0115		
27.90	0.222	214.4	-0.008		
27.93	0.225	214.5	-0.0053		
27.97	0.224	214.5	-0.0044		
28.00	0.224	214.6	-0.0027		
28.03	0.225	214.7	-0.0027		
28.07	0.224	214.7	-0.0018		
28.10	0.224	214.7	0		
28.13	0.225	214.8	0.0018		
28.17	0.229	214.9	0.0044		
28.20	0.228	214.9	0.0053		
28.23	0.228	215	0.0071		
28.27	0.228	215.1	0.0071		
28.30	0.228	215.1	0.0089		
28.33	0.228	215.1	0.0098		
28.37	0.228	215.2	0.0107		
28.40	0.23	215.3	0.0133		
28.43	0.231	215.3	0.0142		
28.47	0.23	215.4	0.0151		
28.50	0.231	215.5	0.0151		
28.53	0.231	215.5	0.0169		
28.57	0.231	215.5	0.0178		
28.60	0.234	215.6	0.0204		
28.63	0.233	215.7	0.0213		
28.67	0.232	215.7	0.0222		
28.70	0.231	215.7	0.0222		
28.73	0.232	215.8	0.0222		
28.77	0.235	215.8	0.024		
28.80	0.235	215.9	0.0257		
28.83	0.232	215.9	0.0257		
28.87	0.232	216	0.0266		
28.90	0.236	216.1	0.0284		
28.93	0.233	216.1	0.0284		
28.97	0.233	216.2	0.0284		
29.00	0.232	216.2	0.0293		
29.03	0.232	216.2	0.0302		
29.07	0.233	216.3	0.0311		
29.10	0.234	216.3	0.032		
29.13	0.234	216.4	0.0337		
29.17	0.236	216.5	0.0346		
29.20	0.233	216.5	0.0346		
29.25	0.235	216.5	0.0355		
29.28	0.234	216.6	0.0355		
29.30	0.231	216.6	0.0355		
29.33	0.234	216.6	0.0346		
29.37	0.234	216.7	0.0364		
29.40	0.232	216.7	0.0355		
29.43	0.234	216.7	0.0364		
29.47	0.231	216.8	0.0364		
29.50	0.232	216.8	0.0373		
29.53	0.232	216.9	0.0373		
29.57	0.232	216.9	0.0382		
29.60	0.232	216.9	0.0382		
29.63	0.234	217	0.0391		
29.67	0.232	217	0.0391		
29.70	0.231	217	0.0391		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
29.73	0.228	217	0.0382			
29.77	0.231	217.1	0.0382			
29.80	0.23	217.1	0.0399			
29.83	0.23	217.1	0.0399			
29.87	0.228	217.1	0.0391			
29.90	0.227	217.2	0.0391			
29.93	0.229	217.2	0.0399			
29.97	0.226	217.2	0.0391			
30.00	0.228	217.3	0.0391			
30.03	0.227	217.3	0.0399			
30.07	0.227	217.3	0.0399			
30.10	0.226	217.3	0.0399			
30.13	0.224	217.3	0.0391			
30.17	0.223	217.4	0.0382			
30.20	0.224	217.4	0.0391			
30.23	0.221	217.4	0.0391			
30.27	0.223	217.4	0.0382			
30.30	0.223	217.5	0.0391			
30.33	0.222	217.5	0.0382			
30.37	0.218	217.5	0.0382			
30.40	0.221	217.5	0.0382			
30.43	0.218	217.5	0.0373			
30.47	0.218	217.6	0.0373			
30.50	0.217	217.6	0.0382			
30.53	0.217	217.6	0.0373			
30.57	0.215	217.6	0.0364			
30.60	0.214	217.6	0.0364			
30.63	0.214	217.6	0.0364			
30.67	0.215	217.7	0.0373			
30.72	0.211	217.6	0.0355			
30.73	0.211	217.7	0.0355			
30.77	0.211	217.7	0.0355			
30.80	0.21	217.7	0.0355			
30.83	0.208	217.7	0.0346			
30.87	0.208	217.7	0.0346			
30.90	0.209	217.7	0.0346			
30.93	0.205	217.7	0.0328			
30.97	0.204	217.7	0.0337			
31.00	0.206	217.7	0.0328			
31.03	0.202	217.7	0.0328			
31.07	0.203	217.7	0.032			
31.10	0.203	217.8	0.032			
31.13	0.199	217.7	0.0302			
31.17	0.198	217.7	0.0302			
31.20	0.198	217.7	0.0302			
31.23	0.197	217.8	0.0293			
31.27	0.195	217.8	0.0293			
31.30	0.195	217.8	0.0293			
31.33	0.195	217.8	0.0284			
31.37	0.193	217.8	0.0275			
31.40	0.19	217.7	0.0266			
31.43	0.19	217.7	0.0257			
31.47	0.188	217.7	0.0249			
31.50	0.184	217.7	0.0249			
31.53	0.184	217.7	0.0231			
31.57	0.184	217.7	0.024			
31.60	0.184	217.7	0.0231			
31.63	0.184	217.7	0.0231			
31.67	0.178	217.7	0.0213			
31.70	0.18	217.7	0.0213			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
31.73	0.181	217.7	0.0213			
31.77	0.174	217.7	0.0204			
31.80	0.174	217.7	0.0186			
31.83	0.176	217.7	0.0195			
31.87	0.175	217.7	0.0178			
31.90	0.171	217.6	0.0169			
31.93	0.168	217.6	0.0151			
31.97	0.167	217.6	0.0151			
32.00	0.166	217.6	0.0151			
32.03	0.166	217.6	0.0133			
32.07	0.165	217.6	0.0124			
32.10	0.162	217.5	0.0115			
32.15	0.163	217.6	0.0115			
32.18	0.161	217.5	0.0098			
32.20	0.155	217.5	0.0071			
32.23	0.156	217.5	0.0071			
32.27	0.155	217.5	0.0062			
32.30	0.154	217.5	0.0062			
32.33	0.15	217.5	0.0062			
32.37	0.15	217.4	0.0036			
32.40	0.149	217.4	0.0027			
32.43	0.146	217.4	0.0018			
32.47	0.148	217.4	0.0018			
32.50	0.145	217.3	-0.0009			
32.53	0.139	217.3	-0.0009			
32.57	0.139	217.3	-0.0027			
32.60	0.139	217.2	-0.0036			
32.63	0.138	217.2	-0.0044			
32.67	0.135	217.2	-0.0062			
32.70	0.135	217.2	-0.0062			
32.73	0.133	217.1	-0.008			
32.77	0.129	217.1	-0.008			
32.80	0.125	217.1	-0.0107			
32.83	0.125	217	-0.0124			
32.87	0.125	217	-0.0133			
32.90	0.124	217	-0.0142			
32.93	0.123	217	-0.0151			
32.97	0.118	216.9	-0.0178			
33.00	0.116	216.8	-0.0178			
33.03	0.115	216.8	-0.0195			
33.07	0.115	216.8	-0.0204			
33.10	0.113	216.8	-0.0222			
33.13	0.11	216.7	-0.024			
33.17	0.111	216.7	-0.0249			
33.20	0.106	216.6	-0.0284			
33.23	0.103	216.6	-0.0284			
33.27	0.102	216.6	-0.0293			
33.30	0.102	216.5	-0.0302			
33.33	0.103	216.5	-0.032			
33.37	0.095	216.4	-0.0346			
33.40	0.095	216.4	-0.0364			
33.43	0.094	216.4	-0.0373			
33.47	0.092	216.3	-0.0373			
33.50	0.088	216.3	-0.0391			
33.53	0.088	216.2	-0.0408			
33.57	0.088	216.2	-0.0426			
33.62	0.084	216.1	-0.0444			
33.65	0.084	216.1	-0.0462			
33.67	0.082	216.1	-0.0488			
33.70	0.079	216	-0.0506			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
33.73	0.077	215.9	-0.0524			
33.77	0.075	215.9	-0.0541			
33.80	0.072	215.8	-0.0541			
33.83	0.07	215.8	-0.0559			
33.87	0.07	215.7	-0.0577			
33.90	0.068	215.7	-0.0604			
33.93	0.065	215.6	-0.0621			
33.97	0.063	215.6	-0.0639			
34.00	0.061	215.5	-0.0675			
34.03	0.058	215.4	-0.0675			
34.07	0.056	215.4	-0.0701			
34.10	0.056	215.4	-0.0719			
34.13	0.054	215.3	-0.0737			
34.17	0.051	215.2	-0.0763			
34.20	0.05	215.2	-0.0781			
34.23	0.047	215.1	-0.0808			
34.27	0.043	215	-0.0808			
34.30	0.042	215	-0.0834			
34.33	0.042	215	-0.0852			
34.37	0.04	214.9	-0.0879			
34.40	0.036	214.8	-0.0905			
34.43	0.035	214.7	-0.0923			
34.47	0.033	214.7	-0.095			
34.50	0.03	214.6	-0.095			
34.53	0.027	214.6	-0.0976			
34.57	0.027	214.5	-0.0994			
34.60	0.026	214.5	-0.1021			
34.63	0.023	214.4	-0.1047			
34.67	0.02	214.3	-0.1074			
34.70	0.019	214.2	-0.1101			
34.73	0.015	214.2	-0.1101			
34.77	0.013	214.2	-0.1127			
34.80	0.013	214.1	-0.1145			
34.83	0.013	214	-0.1172			
34.87	0.009	213.9	-0.1207			
34.90	0.006	213.8	-0.1234			
34.93	0.004	213.8	-0.126			
34.97	0.001	213.7	-0.126			
35.00	-0.002	213.6	-0.1287			
35.05	-0.001	213.5	-0.1331			
35.08	-0.005	213.4	-0.1331			
35.12	-0.007	213.4	-0.1367			
35.15	-0.01	213.3	-0.1394			
35.18	-0.01	213.3	-0.142			
35.20	-0.011	213.2	-0.1438			
35.23	-0.014	213.1	-0.1473			
35.27	-0.016	213	-0.15			
35.30	-0.018	212.9	-0.1527			
35.33	-0.022	212.8	-0.1527			
35.37	-0.023	212.8	-0.1562			
35.40	-0.023	212.7	-0.158			
35.43	-0.025	212.6	-0.1616			
35.47	-0.029	212.5	-0.1651			
35.50	-0.03	212.5	-0.1669			
35.53	-0.032	212.4	-0.1704			
35.57	-0.035	212.3	-0.174			
35.60	-0.037	212.2	-0.174			
35.63	-0.04	212.2	-0.1766			
35.67	-0.04	212.1	-0.1784			
35.70	-0.041	212	-0.182			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
35.73	-0.045	211.9	-0.1855		
35.77	-0.046	211.8	-0.1873		
35.80	-0.048	211.7	-0.1908		
35.83	-0.052	211.5	-0.1908		
35.87	-0.053	211.5	-0.1944		
35.90	-0.053	211.5	-0.1962		
35.93	-0.055	211.4	-0.1997		
35.97	-0.059	211.3	-0.2033		
36.00	-0.06	211.2	-0.2059		
36.03	-0.062	211.1	-0.2095		
36.07	-0.065	211	-0.2095		
36.10	-0.065	211	-0.213		
36.13	-0.067	210.9	-0.2166		
36.17	-0.07	210.7	-0.2201		
36.20	-0.072	210.6	-0.2228		
36.23	-0.074	210.5	-0.2263		
36.27	-0.077	210.4	-0.2263		
36.30	-0.079	210.3	-0.2299		
36.33	-0.079	210.3	-0.2334		
36.37	-0.081	210.2	-0.2361		
36.40	-0.083	210.1	-0.2397		
36.43	-0.086	210	-0.2423		
36.47	-0.086	209.9	-0.2459		
36.52	-0.089	209.8	-0.2494		
36.55	-0.09	209.7	-0.2521		
36.58	-0.092	209.6	-0.2556		
36.62	-0.095	209.5	-0.2556		
36.63	-0.097	209.5	-0.2592		
36.67	-0.097	209.4	-0.2627		
36.70	-0.099	209.3	-0.2663		
36.73	-0.102	209.1	-0.269		
36.77	-0.103	209	-0.2725		
36.80	-0.105	208.9	-0.2761		
36.83	-0.108	208.8	-0.2761		
36.87	-0.108	208.8	-0.2796		
36.90	-0.109	208.7	-0.2832		
36.93	-0.112	208.6	-0.2867		
36.97	-0.114	208.5	-0.2903		
37.00	-0.116	208.4	-0.2947		
37.03	-0.118	208.3	-0.2947		
37.07	-0.12	208.1	-0.2982		
37.10	-0.12	208.1	-0.3018		
37.13	-0.121	208.1	-0.3053		
37.17	-0.124	207.9	-0.3089		
37.20	-0.127	207.8	-0.3124		
37.23	-0.127	207.7	-0.316		
37.27	-0.129	207.6	-0.316		
37.30	-0.132	207.6	-0.3196		
37.33	-0.132	207.4	-0.3231		
37.37	-0.133	207.3	-0.3267		
37.40	-0.136	207.2	-0.3302		
37.43	-0.138	207.1	-0.3346		
37.47	-0.138	207	-0.3373		
37.50	-0.142	206.9	-0.3373		
37.53	-0.141	206.9	-0.3409		
37.57	-0.141	206.8	-0.3435		
37.60	-0.144	206.7	-0.348		
37.63	-0.147	206.6	-0.3515		
37.67	-0.149	206.5	-0.3551		
37.70	-0.149	206.4	-0.3577		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
37.73	-0.151	206.2	-0.3577		
37.77	-0.153	206.2	-0.3613		
37.80	-0.153	206.1	-0.3657		
37.83	-0.154	206	-0.3693		
37.87	-0.157	205.9	-0.3728		
37.90	-0.157	205.8	-0.3764		
37.95	-0.158	205.7	-0.3799		
37.98	-0.161	205.6	-0.3835		
38.00	-0.162	205.5	-0.3861		
38.03	-0.163	205.4	-0.3897		
38.07	-0.165	205.3	-0.3897		
38.10	-0.167	205.3	-0.3941		
38.13	-0.167	205.2	-0.3977		
38.17	-0.168	205.1	-0.4012		
38.20	-0.171	205	-0.4048		
38.23	-0.171	204.9	-0.4065		
38.27	-0.172	204.8	-0.4101		
38.30	-0.175	204.7	-0.4101		
38.33	-0.176	204.7	-0.4145		
38.37	-0.176	204.6	-0.4172		
38.40	-0.176	204.5	-0.4207		
38.43	-0.179	204.3	-0.4252		
38.47	-0.18	204.3	-0.4278		
38.50	-0.18	204.2	-0.4305		
38.53	-0.183	204	-0.4305		
38.57	-0.184	204	-0.4349		
38.60	-0.184	204	-0.4385		
38.63	-0.185	203.8	-0.442		
38.67	-0.187	203.7	-0.4456		
38.70	-0.188	203.6	-0.4491		
38.73	-0.188	203.5	-0.4527		
38.77	-0.19	203.4	-0.4527		
38.80	-0.191	203.4	-0.4562		
38.83	-0.191	203.3	-0.4598		
38.87	-0.192	203.2	-0.4633		
38.90	-0.194	203.1	-0.4669		
38.93	-0.195	203	-0.4704		
38.97	-0.195	202.9	-0.4731		
39.00	-0.198	202.8	-0.4731		
39.03	-0.197	202.8	-0.4776		
39.07	-0.197	202.8	-0.4802		
39.10	-0.199	202.6	-0.4838		
39.13	-0.2	202.6	-0.4882		
39.17	-0.201	202.5	-0.4909		
39.20	-0.201	202.4	-0.4944		
39.23	-0.203	202.3	-0.4944		
39.27	-0.203	202.3	-0.498		
39.30	-0.203	202.2	-0.5006		
39.33	-0.205	202.1	-0.5051		
39.37	-0.206	202	-0.5086		
39.42	-0.206	201.9	-0.5113		
39.45	-0.207	201.9	-0.5148		
39.47	-0.207	201.8	-0.5175		
39.50	-0.208	201.7	-0.5219		
39.53	-0.209	201.6	-0.5255		
39.57	-0.21	201.5	-0.5255		
39.60	-0.21	201.5	-0.5281		
39.63	-0.21	201.4	-0.5317		
39.67	-0.211	201.3	-0.5352		
39.70	-0.212	201.3	-0.5379		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
39.73	-0.213	201.2	-0.5415		
39.77	-0.213	201.1	-0.545		
39.80	-0.214	201	-0.545		
39.83	-0.214	201	-0.5477		
39.87	-0.214	201	-0.5512		
39.90	-0.215	200.9	-0.5539		
39.93	-0.216	200.8	-0.5566		
39.97	-0.215	200.8	-0.5592		
40.00	-0.217	200.7	-0.5628		
40.03	-0.217	200.6	-0.5628		
40.07	-0.217	200.6	-0.5654		
40.10	-0.217	200.6	-0.5681		
40.13	-0.217	200.5	-0.5708		
40.17	-0.218	200.5	-0.5734		
40.20	-0.218	200.4	-0.5761		
40.23	-0.218	200.4	-0.5787		
40.27	-0.219	200.3	-0.5787		
40.30	-0.219	200.3	-0.5814		
40.33	-0.219	200.2	-0.5841		
40.37	-0.22	200.2	-0.5867		
40.40	-0.219	200.1	-0.5885		
40.43	-0.22	200.1	-0.5912		
40.47	-0.22	200	-0.5938		
40.50	-0.22	200	-0.5938		
40.53	-0.221	200	-0.5965		
40.57	-0.221	199.9	-0.5983		
40.60	-0.221	199.9	-0.6009		
40.63	-0.22	199.9	-0.6027		
40.67	-0.221	199.8	-0.6045		
40.70	-0.221	199.8	-0.6063		
40.73	-0.221	199.7	-0.6063		
40.77	-0.22	199.7	-0.608		
40.80	-0.22	199.7	-0.6089		
40.83	-0.22	199.7	-0.6107		
40.88	-0.22	199.7	-0.6125		
40.92	-0.22	199.6	-0.6142		
40.93	-0.219	199.6	-0.6151		
40.97	-0.221	199.6	-0.6169		
41.00	-0.22	199.5	-0.6187		
41.03	-0.22	199.5	-0.6196		
41.07	-0.219	199.5	-0.6196		
41.10	-0.218	199.5	-0.6205		
41.13	-0.218	199.5	-0.6213		
41.17	-0.22	199.4	-0.6222		
41.20	-0.219	199.4	-0.6231		
41.23	-0.218	199.4	-0.624		
41.27	-0.219	199.4	-0.6249		
41.30	-0.218	199.4	-0.6249		
41.33	-0.218	199.4	-0.6249		
41.37	-0.218	199.4	-0.6258		
41.40	-0.216	199.4	-0.6267		
41.43	-0.217	199.4	-0.6276		
41.47	-0.217	199.3	-0.6276		
41.50	-0.214	199.3	-0.6267		
41.53	-0.215	199.3	-0.6267		
41.57	-0.216	199.3	-0.6284		
41.60	-0.216	199.3	-0.6284		
41.63	-0.213	199.3	-0.6276		
41.67	-0.213	199.3	-0.6302		
41.70	-0.216	199.3	-0.6293		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
41.73	-0.21	199.3	-0.6284		
41.77	-0.211	199.3	-0.6284		
41.80	-0.212	199.3	-0.6293		
41.83	-0.212	199.3	-0.6302		
41.87	-0.212	199.3	-0.6293		
41.90	-0.209	199.4	-0.6293		
41.93	-0.208	199.4	-0.6293		
41.97	-0.208	199.4	-0.6293		
42.00	-0.207	199.4	-0.6293		
42.03	-0.206	199.4	-0.6284		
42.07	-0.206	199.4	-0.6284		
42.10	-0.205	199.4	-0.6284		
42.13	-0.205	199.4	-0.6284		
42.17	-0.205	199.4	-0.6284		
42.20	-0.203	199.4	-0.6276		
42.23	-0.202	199.5	-0.6276		
42.27	-0.2	199.5	-0.6276		
42.32	-0.201	199.5	-0.6267		
42.35	-0.2	199.5	-0.6267		
42.37	-0.199	199.5	-0.6267		
42.40	-0.199	199.5	-0.6258		
42.43	-0.198	199.5	-0.6258		
42.47	-0.197	199.6	-0.6249		
42.50	-0.195	199.6	-0.624		
42.53	-0.196	199.6	-0.624		
42.57	-0.193	199.6	-0.624		
42.60	-0.193	199.6	-0.624		
42.63	-0.193	199.7	-0.6231		
42.67	-0.191	199.7	-0.6222		
42.70	-0.19	199.7	-0.6213		
42.73	-0.188	199.8	-0.6205		
42.77	-0.188	199.8	-0.6205		
42.80	-0.187	199.8	-0.6205		
42.83	-0.185	199.8	-0.6205		
42.87	-0.185	199.8	-0.6196		
42.90	-0.184	199.9	-0.6187		
42.93	-0.182	199.9	-0.6178		
42.97	-0.182	199.9	-0.6169		
43.00	-0.18	200	-0.616		
43.03	-0.178	200.1	-0.616		
43.07	-0.177	200.1	-0.6151		
43.10	-0.177	200.1	-0.6142		
43.13	-0.176	200.1	-0.6134		
43.17	-0.174	200.2	-0.6125		
43.20	-0.173	200.2	-0.6116		
43.23	-0.171	200.3	-0.6107		
43.27	-0.169	200.3	-0.6107		
43.30	-0.169	200.3	-0.6098		
43.33	-0.169	200.4	-0.6089		
43.37	-0.167	200.4	-0.608		
43.40	-0.164	200.5	-0.6063		
43.43	-0.164	200.5	-0.6063		
43.47	-0.163	200.6	-0.6054		
43.50	-0.161	200.6	-0.6054		
43.53	-0.159	200.6	-0.6036		
43.57	-0.159	200.7	-0.6027		
43.60	-0.157	200.7	-0.6018		
43.63	-0.155	200.8	-0.6		
43.67	-0.154	200.8	-0.5992		
43.70	-0.153	200.9	-0.5974		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
43.73	-0.15	201	-0.5974		
43.78	-0.15	201	-0.5965		
43.82	-0.148	201.1	-0.5947		
43.83	-0.145	201.2	-0.5947		
43.87	-0.145	201.2	-0.5929		
43.90	-0.145	201.2	-0.5921		
43.93	-0.143	201.3	-0.5912		
43.97	-0.14	201.4	-0.5894		
44.00	-0.139	201.4	-0.5876		
44.03	-0.137	201.5	-0.5867		
44.07	-0.134	201.6	-0.5867		
44.10	-0.134	201.6	-0.585		
44.13	-0.134	201.6	-0.5841		
44.17	-0.132	201.7	-0.5823		
44.20	-0.129	201.8	-0.5805		
44.23	-0.128	201.9	-0.5796		
44.27	-0.126	201.9	-0.5779		
44.30	-0.124	202	-0.5779		
44.33	-0.122	202	-0.5761		
44.37	-0.122	202.1	-0.5752		
44.40	-0.121	202.2	-0.5725		
44.43	-0.118	202.3	-0.5708		
44.47	-0.116	202.3	-0.5699		
44.50	-0.115	202.4	-0.5681		
44.53	-0.111	202.5	-0.5681		
44.57	-0.111	202.5	-0.5663		
44.60	-0.111	202.6	-0.5645		
44.63	-0.109	202.7	-0.5628		
44.67	-0.105	202.8	-0.561		
44.70	-0.104	202.8	-0.5592		
44.73	-0.102	202.9	-0.5574		
44.77	-0.099	203	-0.5574		
44.80	-0.097	203	-0.5557		
44.83	-0.097	203.1	-0.5539		
44.87	-0.096	203.2	-0.5521		
44.90	-0.093	203.3	-0.5503		
44.93	-0.091	203.4	-0.5486		
44.97	-0.089	203.5	-0.5459		
45.00	-0.087	203.6	-0.5459		
45.03	-0.085	203.6	-0.5441		
45.07	-0.085	203.7	-0.5423		
45.10	-0.084	203.8	-0.5397		
45.13	-0.079	203.9	-0.537		
45.17	-0.079	204	-0.5352		
45.22	-0.077	204.1	-0.5335		
45.25	-0.075	204.1	-0.5317		
45.27	-0.072	204.2	-0.5299		
45.30	-0.071	204.3	-0.5273		
45.33	-0.067	204.4	-0.5273		
45.37	-0.067	204.4	-0.5246		
45.40	-0.067	204.5	-0.5237		
45.43	-0.064	204.6	-0.5202		
45.47	-0.06	204.8	-0.5166		
45.50	-0.059	204.8	-0.5148		
45.53	-0.058	204.9	-0.5122		
45.57	-0.053	205.1	-0.5122		
45.60	-0.053	205.1	-0.5095		
45.63	-0.053	205.2	-0.5077		
45.67	-0.05	205.3	-0.5051		
45.70	-0.046	205.4	-0.5024		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
45.73	-0.045	205.5	-0.5006		
45.77	-0.044	205.6	-0.498		
45.80	-0.039	205.7	-0.498		
45.83	-0.038	205.7	-0.4953		
45.87	-0.038	205.8	-0.4935		
45.90	-0.037	205.9	-0.4909		
45.93	-0.033	206	-0.4873		
45.97	-0.032	206.1	-0.4855		
46.00	-0.029	206.2	-0.482		
46.03	-0.026	206.3	-0.482		
46.07	-0.024	206.3	-0.4793		
46.10	-0.024	206.4	-0.4767		
46.13	-0.023	206.5	-0.474		
46.17	-0.018	206.7	-0.4713		
46.20	-0.017	206.8	-0.4687		
46.23	-0.016	206.9	-0.466		
46.27	-0.011	207	-0.466		
46.30	-0.01	207	-0.4625		
46.33	-0.01	207.1	-0.4607		
46.37	-0.01	207.2	-0.458		
46.40	-0.005	207.3	-0.4545		
46.43	-0.003	207.4	-0.4518		
46.47	-0.002	207.6	-0.4483		
46.50	0.003	207.7	-0.4483		
46.53	0.004	207.7	-0.4456		
46.57	0.004	207.8	-0.4429		
46.60	0.006	207.9	-0.4403		
46.63	0.009	208.1	-0.4367		
46.68	0.011	208.2	-0.4341		
46.72	0.012	208.3	-0.4314		
46.73	0.015	208.4	-0.4287		
46.77	0.017	208.5	-0.4252		
46.80	0.019	208.6	-0.4225		
46.83	0.022	208.8	-0.4225		
46.87	0.022	208.8	-0.4199		
46.90	0.022	208.8	-0.4181		
46.93	0.026	209	-0.4128		
46.97	0.032	209.1	-0.4083		
47.00	0.032	209.2	-0.4057		
47.03	0.033	209.3	-0.4039		
47.07	0.037	209.5	-0.4039		
47.10	0.038	209.5	-0.4003		
47.13	0.038	209.6	-0.3977		
47.17	0.041	209.7	-0.395		
47.20	0.044	209.8	-0.3914		
47.23	0.045	209.9	-0.3888		
47.27	0.048	210	-0.3852		
47.30	0.051	210.2	-0.3852		
47.33	0.052	210.2	-0.3817		
47.37	0.052	210.3	-0.379		
47.40	0.054	210.4	-0.3755		
47.43	0.058	210.6	-0.371		
47.47	0.06	210.7	-0.3684		
47.50	0.061	210.8	-0.3648		
47.53	0.065	210.9	-0.3648		
47.57	0.067	211	-0.3613		
47.60	0.067	211	-0.3586		
47.63	0.068	211.1	-0.3551		
47.67	0.071	211.3	-0.3515		
47.70	0.074	211.4	-0.348		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
47.73	0.076	211.5	-0.3453			
47.77	0.076	211.6	-0.3426			
47.80	0.081	211.8	-0.3426			
47.83	0.081	211.8	-0.3382			
47.87	0.082	211.9	-0.3355			
47.90	0.084	212	-0.332			
47.93	0.087	212.2	-0.3284			
47.97	0.089	212.3	-0.324			
48.00	0.092	212.4	-0.324			
48.03	0.094	212.4	-0.3204			
48.07	0.094	212.5	-0.3178			
48.10	0.095	212.6	-0.3142			
48.15	0.099	212.7	-0.3098			
48.18	0.099	212.8	-0.3071			
48.22	0.101	213	-0.3036			
48.25	0.104	213.1	-0.3			
48.27	0.106	213.2	-0.2974			
48.30	0.107	213.3	-0.2938			
48.33	0.11	213.4	-0.2938			
48.37	0.112	213.4	-0.2894			
48.40	0.112	213.6	-0.2858			
48.43	0.114	213.7	-0.2823			
48.47	0.117	213.8	-0.2787			
48.50	0.118	213.9	-0.2761			
48.53	0.12	214	-0.2725			
48.57	0.123	214.1	-0.2725			
48.60	0.124	214.1	-0.269			
48.63	0.124	214.2	-0.2654			
48.67	0.126	214.4	-0.2619			
48.70	0.13	214.5	-0.2583			
48.73	0.13	214.6	-0.2548			
48.77	0.132	214.7	-0.2512			
48.80	0.135	214.8	-0.2512			
48.83	0.136	214.8	-0.2477			
48.87	0.136	214.9	-0.245			
48.90	0.138	215	-0.2406			
48.93	0.14	215.1	-0.237			
48.97	0.142	215.2	-0.2334			
49.00	0.143	215.3	-0.2299			
49.03	0.146	215.5	-0.2299			
49.07	0.148	215.5	-0.2263			
49.10	0.148	215.6	-0.2237			
49.13	0.149	215.7	-0.2201			
49.17	0.151	215.8	-0.2166			
49.20	0.153	215.9	-0.213			
49.23	0.155	216	-0.2104			
49.27	0.157	216.2	-0.2104			
49.30	0.159	216.2	-0.2059			
49.33	0.159	216.3	-0.2033			
49.37	0.16	216.4	-0.1997			
49.40	0.163	216.5	-0.1962			
49.43	0.164	216.6	-0.1926			
49.47	0.165	216.7	-0.1891			
49.50	0.168	216.8	-0.1891			
49.53	0.169	216.8	-0.1855			
49.58	0.17	217	-0.1802			
49.62	0.172	217.1	-0.1802			
49.65	0.171	217.1	-0.1775			
49.68	0.171	217.2	-0.1758			
49.70	0.174	217.3	-0.1713			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
49.73	0.177	217.4	-0.1678			
49.77	0.178	217.5	-0.1642			
49.80	0.18	217.6	-0.1616			
49.83	0.182	217.7	-0.1616			
49.87	0.182	217.7	-0.158			
49.90	0.182	217.8	-0.1553			
49.93	0.184	217.9	-0.1518			
49.97	0.186	218	-0.1491			
50.00	0.19	218.2	-0.1447			
50.03	0.186	218.2	-0.1438			
50.07	0.188	218.3	-0.1438			
50.10	0.191	218.3	-0.1411			
50.13	0.191	218.4	-0.1376			
50.17	0.192	218.5	-0.1349			
50.20	0.195	218.6	-0.1314			
50.23	0.195	218.7	-0.1287			
50.27	0.196	218.8	-0.126			
50.30	0.198	218.9	-0.126			
50.33	0.199	218.9	-0.1225			
50.37	0.199	219	-0.1198			
50.40	0.2	219.1	-0.1172			
50.43	0.202	219.2	-0.1136			
50.47	0.203	219.3	-0.1118			
50.50	0.204	219.4	-0.1083			
50.53	0.206	219.5	-0.1083			
50.57	0.206	219.5	-0.1056			
50.60	0.206	219.6	-0.103			
50.63	0.208	219.7	-0.0994			
50.67	0.209	219.8	-0.0976			
50.70	0.21	219.8	-0.095			
50.73	0.21	219.9	-0.0923			
50.77	0.212	220	-0.0923			
50.80	0.213	220	-0.0897			
50.83	0.213	220.1	-0.0861			
50.87	0.216	220.2	-0.0834			
50.90	0.214	220.3	-0.0826			
50.93	0.215	220.4	-0.079			
50.97	0.218	220.5	-0.0763			
51.00	0.219	220.6	-0.0763			
51.05	0.218	220.6	-0.0728			
51.08	0.217	220.7	-0.0719			
51.10	0.219	220.8	-0.0719			
51.13	0.22	220.8	-0.0692			
51.17	0.22	220.9	-0.0666			
51.20	0.222	220.9	-0.0639			
51.23	0.222	221	-0.0621			
51.27	0.222	221.1	-0.0604			
51.30	0.226	221.2	-0.0577			
51.33	0.223	221.2	-0.0577			
51.37	0.224	221.2	-0.0568			
51.40	0.224	221.3	-0.055			
51.43	0.227	221.4	-0.0515			
51.47	0.226	221.5	-0.0506			
51.50	0.226	221.5	-0.0497			
51.53	0.228	221.6	-0.0462			
51.57	0.227	221.7	-0.0462			
51.60	0.228	221.7	-0.0462			
51.63	0.228	221.7	-0.0444			
51.67	0.228	221.8	-0.0426			
51.70	0.232	221.9	-0.0399			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
51.73	0.229	221.9	-0.0399			
51.77	0.229	222	-0.0382			
51.80	0.231	222	-0.0382			
51.83	0.232	222	-0.0364			
51.87	0.232	222.1	-0.0346			
51.90	0.231	222.2	-0.0337			
51.93	0.231	222.2	-0.0328			
51.97	0.234	222.3	-0.0311			
52.00	0.232	222.4	-0.0302			
52.03	0.231	222.4	-0.0302			
52.07	0.231	222.4	-0.0302			
52.10	0.231	222.5	-0.0284			
52.13	0.233	222.5	-0.0275			
52.17	0.236	222.6	-0.0249			
52.20	0.233	222.7	-0.0249			
52.23	0.232	222.7	-0.0249			
52.27	0.233	222.8	-0.0249			
52.30	0.236	222.8	-0.0231			
52.33	0.236	222.8	-0.0213			
52.37	0.233	222.9	-0.0213			
52.40	0.232	222.9	-0.0213			
52.43	0.233	223	-0.0195			
52.48	0.234	223	-0.0195			
52.52	0.233	223.1	-0.0186			
52.53	0.236	223.1	-0.0169			
52.57	0.233	223.1	-0.0178			
52.60	0.232	223.1	-0.0178			
52.63	0.234	223.1	-0.0178			
52.67	0.234	223.2	-0.016			
52.70	0.232	223.2	-0.0169			
52.73	0.232	223.3	-0.016			
52.77	0.234	223.3	-0.0151			
52.80	0.232	223.4	-0.0151			
52.83	0.231	223.4	-0.0151			
52.87	0.233	223.4	-0.0142			
52.90	0.233	223.5	-0.0142			
52.93	0.232	223.5	-0.0142			
52.97	0.23	223.5	-0.0142			
53.00	0.23	223.5	-0.0133			
53.03	0.231	223.6	-0.0133			
53.07	0.23	223.6	-0.0133			
53.10	0.23	223.6	-0.0133			
53.13	0.23	223.7	-0.0133			
53.17	0.23	223.7	-0.0124			
53.20	0.229	223.7	-0.0124			
53.23	0.229	223.8	-0.0124			
53.27	0.226	223.8	-0.0133			
53.30	0.226	223.8	-0.0133			
53.33	0.228	223.8	-0.0133			
53.37	0.228	223.9	-0.0124			
53.40	0.226	223.9	-0.0124			
53.43	0.225	223.9	-0.0142			
53.47	0.223	223.9	-0.0142			
53.50	0.223	223.9	-0.0124			
53.53	0.224	224	-0.0124			
53.57	0.224	224	-0.0133			
53.60	0.224	224	-0.0133			
53.63	0.223	224	-0.0142			
53.67	0.221	224	-0.0142			
53.70	0.22	224.1	-0.0142			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
53.73	0.218	224.1	-0.0151			
53.77	0.217	224.1	-0.0151			
53.80	0.219	224.1	-0.0151			
53.83	0.219	224.1	-0.0151			
53.87	0.218	224.1	-0.0151			
53.90	0.215	224.1	-0.016			
53.95	0.215	224.2	-0.016			
53.98	0.214	224.2	-0.0169			
54.00	0.212	224.2	-0.0169			
54.03	0.212	224.2	-0.0169			
54.07	0.213	224.2	-0.0169			
54.10	0.211	224.2	-0.0169			
54.13	0.208	224.2	-0.0178			
54.17	0.208	224.2	-0.0186			
54.20	0.208	224.2	-0.0186			
54.23	0.207	224.3	-0.0195			
54.27	0.207	224.3	-0.0195			
54.30	0.206	224.3	-0.0204			
54.33	0.201	224.3	-0.0204			
54.37	0.201	224.3	-0.0213			
54.40	0.201	224.3	-0.0213			
54.43	0.202	224.3	-0.0213			
54.47	0.2	224.3	-0.0231			
54.50	0.198	224.3	-0.0231			
54.53	0.197	224.3	-0.0231			
54.57	0.196	224.3	-0.0231			
54.60	0.195	224.3	-0.0249			
54.63	0.195	224.3	-0.0249			
54.67	0.193	224.3	-0.0257			
54.70	0.194	224.3	-0.0257			
54.73	0.191	224.3	-0.0275			
54.77	0.188	224.3	-0.0284			
54.80	0.187	224.3	-0.0284			
54.83	0.186	224.3	-0.0293			
54.87	0.186	224.3	-0.0293			
54.90	0.185	224.3	-0.0302			
54.93	0.185	224.3	-0.0302			
54.97	0.18	224.2	-0.032			
55.00	0.18	224.2	-0.032			
55.03	0.179	224.2	-0.032			
55.07	0.177	224.2	-0.0328			
55.10	0.177	224.2	-0.0346			
55.13	0.177	224.2	-0.0346			
55.17	0.172	224.2	-0.0364			
55.20	0.173	224.2	-0.0373			
55.23	0.171	224.1	-0.0382			
55.27	0.171	224.1	-0.0382			
55.30	0.167	224.1	-0.0382			
55.33	0.167	224.1	-0.0399			
55.38	0.164	224.1	-0.0417			
55.42	0.164	224.1	-0.0426			
55.43	0.164	224.1	-0.0426			
55.47	0.162	224	-0.0435			
55.50	0.157	224	-0.0462			
55.53	0.158	224	-0.0462			
55.57	0.156	224	-0.047			
55.60	0.154	223.9	-0.047			
55.63	0.154	223.9	-0.0479			
55.67	0.154	223.9	-0.0488			
55.70	0.149	223.9	-0.0515			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
55.73	0.148	223.8	-0.0524			
55.77	0.149	223.8	-0.0524			
55.80	0.145	223.8	-0.0541			
55.83	0.139	223.7	-0.0541			
55.87	0.141	223.7	-0.0568			
55.90	0.141	223.7	-0.0577			
55.93	0.14	223.7	-0.0586			
55.97	0.139	223.7	-0.0586			
56.00	0.134	223.6	-0.0612			
56.03	0.134	223.6	-0.0621			
56.07	0.131	223.6	-0.0621			
56.10	0.129	223.6	-0.0639			
56.13	0.129	223.5	-0.0666			
56.17	0.127	223.5	-0.0675			
56.20	0.127	223.5	-0.0683			
56.23	0.121	223.4	-0.0719			
56.27	0.122	223.4	-0.0728			
56.30	0.12	223.3	-0.0728			
56.33	0.116	223.3	-0.0737			
56.37	0.116	223.3	-0.0754			
56.40	0.115	223.2	-0.0772			
56.43	0.111	223.2	-0.079			
56.47	0.113	223.2	-0.0799			
56.50	0.11	223.1	-0.0826			
56.53	0.105	223.1	-0.0826			
56.57	0.102	223.1	-0.0843			
56.60	0.102	223	-0.087			
56.63	0.103	223	-0.0879			
56.67	0.102	222.9	-0.0897			
56.70	0.096	222.9	-0.0923			
56.73	0.098	222.9	-0.0923			
56.77	0.094	222.8	-0.0923			
56.80	0.09	222.8	-0.095			
56.85	0.09	222.7	-0.0985			
56.88	0.087	222.6	-0.0985			
56.90	0.085	222.6	-0.1003			
56.93	0.085	222.6	-0.1021			
56.97	0.084	222.5	-0.1039			
57.00	0.083	222.5	-0.1056			
57.03	0.077	222.4	-0.1092			
57.07	0.077	222.3	-0.111			
57.10	0.074	222.3	-0.111			
57.13	0.072	222.3	-0.1127			
57.17	0.072	222.2	-0.1154			
57.20	0.07	222.2	-0.1172			
57.23	0.066	222.1	-0.1198			
57.27	0.066	222	-0.1207			
57.30	0.063	222	-0.1234			
57.33	0.059	221.9	-0.1234			
57.37	0.058	221.9	-0.126			
57.40	0.058	221.8	-0.1287			
57.43	0.056	221.8	-0.1305			
57.47	0.053	221.7	-0.134			
57.50	0.051	221.6	-0.1358			
57.53	0.05	221.5	-0.1376			
57.57	0.045	221.4	-0.1376			
57.60	0.045	221.4	-0.1402			
57.63	0.045	221.4	-0.1429			
57.67	0.042	221.3	-0.1456			
57.70	0.038	221.2	-0.1491			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
57.73	0.036	221.2	-0.1509			
57.77	0.035	221.1	-0.1527			
57.80	0.032	221	-0.1527			
57.83	0.03	221	-0.1562			
57.87	0.03	220.9	-0.158			
57.90	0.029	220.8	-0.1616			
57.93	0.023	220.7	-0.1642			
57.97	0.023	220.7	-0.1669			
58.00	0.021	220.6	-0.1695			
58.03	0.017	220.5	-0.1695			
58.07	0.016	220.5	-0.1722			
58.10	0.016	220.4	-0.1749			
58.13	0.014	220.3	-0.1784			
58.17	0.01	220.2	-0.1802			
58.20	0.008	220.1	-0.1829			
58.23	0.006	220	-0.1855			
58.27	0.003	220	-0.1855			
58.32	0.003	219.9	-0.19			
58.35	0.001	219.8	-0.1935			
58.37	-0.004	219.7	-0.1935			
58.40	-0.005	219.7	-0.1971			
58.43	-0.005	219.6	-0.1997			
58.47	-0.007	219.5	-0.2024			
58.50	-0.01	219.4	-0.2059			
58.53	-0.012	219.3	-0.2086			
58.57	-0.014	219.2	-0.2113			
58.60	-0.017	219.1	-0.2113			
58.63	-0.018	219.1	-0.2148			
58.67	-0.018	219.1	-0.2175			
58.70	-0.022	218.9	-0.2219			
58.73	-0.024	218.8	-0.2246			
58.77	-0.027	218.7	-0.2272			
58.80	-0.028	218.6	-0.2299			
58.83	-0.032	218.5	-0.2299			
58.87	-0.033	218.5	-0.2343			
58.90	-0.033	218.4	-0.2361			
58.93	-0.035	218.3	-0.2397			
58.97	-0.039	218.2	-0.2432			
59.00	-0.04	218.1	-0.2468			
59.03	-0.042	218	-0.2494			
59.07	-0.046	217.9	-0.2494			
59.10	-0.047	217.9	-0.2539			
59.13	-0.047	217.8	-0.2565			
59.17	-0.049	217.7	-0.2601			
59.20	-0.052	217.6	-0.2636			
59.23	-0.055	217.5	-0.2672			
59.27	-0.056	217.4	-0.2707			
59.30	-0.059	217.3	-0.2707			
59.33	-0.061	217.3	-0.2743			
59.37	-0.061	217.2	-0.2769			
59.40	-0.063	217.1	-0.2805			
59.43	-0.066	217	-0.2849			
59.47	-0.068	216.8	-0.2876			
59.50	-0.069	216.7	-0.2929			
59.53	-0.074	216.6	-0.2929			
59.57	-0.074	216.6	-0.2965			
59.60	-0.074	216.5	-0.2991			
59.63	-0.075	216.4	-0.3027			
59.67	-0.081	216.3	-0.308			
59.70	-0.081	216.2	-0.3107			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
59.75	-0.083	216.1	-0.3133		
59.78	-0.083	216	-0.316		
59.80	-0.088	215.8	-0.3204		
59.83	-0.088	215.7	-0.3231		
59.87	-0.092	215.6	-0.3231		
59.90	-0.093	215.6	-0.3275		
59.93	-0.093	215.5	-0.3302		
59.97	-0.094	215.4	-0.3346		
60.00	-0.098	215.3	-0.3391		
60.03	-0.099	215.2	-0.3417		
60.07	-0.101	215	-0.3462		
60.10	-0.105	214.9	-0.3462		
60.13	-0.106	214.9	-0.3506		
60.17	-0.106	214.8	-0.3533		
60.20	-0.107	214.7	-0.3577		
60.23	-0.111	214.6	-0.3613		
60.27	-0.112	214.5	-0.3639		
60.30	-0.114	214.4	-0.3684		
60.33	-0.117	214.3	-0.3684		
60.37	-0.118	214.3	-0.3728		
60.40	-0.118	214.1	-0.3755		
60.43	-0.12	214	-0.3799		
60.47	-0.123	213.9	-0.3835		
60.50	-0.124	213.8	-0.387		
60.53	-0.125	213.7	-0.3914		
60.57	-0.129	213.5	-0.3914		
60.60	-0.13	213.5	-0.3959		
60.63	-0.13	213.4	-0.3994		
60.67	-0.131	213.3	-0.403		
60.70	-0.135	213.2	-0.4065		
60.73	-0.135	213.1	-0.4092		
60.77	-0.136	213	-0.4128		
60.80	-0.14	212.8	-0.4128		
60.83	-0.141	212.8	-0.4172		
60.87	-0.141	212.7	-0.4207		
60.90	-0.142	212.6	-0.4252		
60.93	-0.145	212.5	-0.4287		
60.97	-0.146	212.4	-0.4323		
61.00	-0.147	212.3	-0.4358		
61.03	-0.149	212.1	-0.4358		
61.07	-0.152	212.1	-0.4403		
61.10	-0.152	212	-0.4447		
61.13	-0.152	211.9	-0.4474		
61.17	-0.155	211.7	-0.4518		
61.22	-0.157	211.6	-0.4554		
61.25	-0.156	211.5	-0.458		
61.27	-0.16	211.4	-0.4625		
61.30	-0.16	211.3	-0.4651		
61.33	-0.162	211.2	-0.4696		
61.37	-0.164	211.1	-0.4696		
61.40	-0.166	211.1	-0.4731		
61.43	-0.166	211	-0.4767		
61.47	-0.166	210.9	-0.4802		
61.50	-0.169	210.7	-0.4847		
61.53	-0.17	210.6	-0.4882		
61.57	-0.171	210.5	-0.4918		
61.60	-0.173	210.4	-0.4918		
61.63	-0.174	210.4	-0.4953		
61.67	-0.174	210.3	-0.4989		
61.70	-0.175	210.1	-0.5024		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
61.73	-0.177	210	-0.506		
61.77	-0.179	209.9	-0.5095		
61.80	-0.179	209.8	-0.5131		
61.83	-0.181	209.7	-0.5131		
61.87	-0.182	209.7	-0.5166		
61.90	-0.182	209.6	-0.521		
61.93	-0.183	209.5	-0.5246		
61.97	-0.185	209.4	-0.5281		
62.00	-0.187	209.2	-0.5326		
62.03	-0.187	209.1	-0.5352		
62.07	-0.189	209	-0.5352		
62.10	-0.19	209	-0.5388		
62.13	-0.19	208.9	-0.5423		
62.17	-0.191	208.8	-0.5459		
62.20	-0.192	208.7	-0.5494		
62.23	-0.193	208.6	-0.5521		
62.27	-0.194	208.5	-0.5557		
62.30	-0.196	208.4	-0.5557		
62.33	-0.197	208.4	-0.5592		
62.37	-0.197	208.3	-0.5619		
62.40	-0.198	208.2	-0.5654		
62.43	-0.199	208.1	-0.569		
62.47	-0.2	208	-0.5716		
62.50	-0.201	207.9	-0.5752		
62.53	-0.202	207.8	-0.5752		
62.57	-0.203	207.8	-0.5787		
62.60	-0.203	207.7	-0.5814		
62.65	-0.204	207.5	-0.5841		
62.68	-0.206	207.5	-0.5867		
62.70	-0.206	207.4	-0.5894		
62.73	-0.205	207.3	-0.5921		
62.77	-0.206	207.3	-0.5956		
62.80	-0.207	207.2	-0.5983		
62.83	-0.208	207.1	-0.6009		
62.87	-0.209	207	-0.6009		
62.90	-0.21	207	-0.6045		
62.93	-0.21	206.9	-0.6071		
62.97	-0.21	206.8	-0.6089		
63.00	-0.211	206.7	-0.6125		
63.03	-0.212	206.7	-0.6151		
63.07	-0.212	206.6	-0.6178		
63.10	-0.213	206.5	-0.6178		
63.13	-0.213	206.5	-0.6205		
63.17	-0.213	206.4	-0.6231		
63.20	-0.215	206.3	-0.6267		
63.23	-0.215	206.3	-0.6284		
63.27	-0.215	206.2	-0.6311		
63.30	-0.216	206.1	-0.6329		
63.33	-0.217	206	-0.6329		
63.37	-0.217	206	-0.6356		
63.40	-0.217	206	-0.6382		
63.43	-0.217	205.9	-0.64		
63.47	-0.218	205.9	-0.6427		
63.50	-0.218	205.8	-0.6453		
63.53	-0.219	205.7	-0.6471		
63.57	-0.218	205.7	-0.6471		
63.60	-0.219	205.7	-0.6489		
63.63	-0.219	205.6	-0.6515		
63.67	-0.219	205.6	-0.6533		
63.70	-0.219	205.5	-0.6551		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
63.73	-0.219	205.5	-0.6577		
63.77	-0.219	205.4	-0.6586		
63.80	-0.22	205.4	-0.6586		
63.83	-0.22	205.4	-0.6613		
63.87	-0.22	205.3	-0.6631		
63.90	-0.22	205.2	-0.6648		
63.93	-0.22	205.2	-0.6657		
63.97	-0.221	205.1	-0.6675		
64.00	-0.221	205.1	-0.6693		
64.03	-0.219	205.1	-0.6693		
64.07	-0.22	205.1	-0.6702		
64.12	-0.22	205	-0.6728		
64.15	-0.219	205	-0.6728		
64.17	-0.222	205	-0.6737		
64.20	-0.222	204.9	-0.6764		
64.23	-0.22	204.9	-0.6764		
64.27	-0.219	204.9	-0.6773		
64.30	-0.22	204.8	-0.679		
64.33	-0.219	204.8	-0.6799		
64.37	-0.22	204.8	-0.6799		
64.40	-0.219	204.8	-0.6808		
64.43	-0.219	204.7	-0.6817		
64.47	-0.218	204.7	-0.6817		
64.50	-0.219	204.7	-0.6835		
64.53	-0.218	204.7	-0.6844		
64.57	-0.219	204.6	-0.6844		
64.60	-0.219	204.6	-0.6844		
64.63	-0.218	204.6	-0.6853		
64.67	-0.218	204.6	-0.6853		
64.70	-0.217	204.6	-0.6853		
64.73	-0.217	204.6	-0.6861		
64.77	-0.216	204.6	-0.687		
64.80	-0.217	204.5	-0.687		
64.83	-0.216	204.5	-0.687		
64.87	-0.215	204.5	-0.6879		
64.90	-0.215	204.5	-0.687		
64.93	-0.214	204.5	-0.6879		
64.97	-0.214	204.5	-0.6879		
65.00	-0.213	204.5	-0.6879		
65.03	-0.213	204.5	-0.6879		
65.07	-0.213	204.5	-0.6879		
65.10	-0.212	204.5	-0.6879		
65.13	-0.212	204.5	-0.6879		
65.17	-0.211	204.5	-0.6879		
65.20	-0.21	204.5	-0.687		
65.23	-0.209	204.5	-0.687		
65.27	-0.209	204.5	-0.687		
65.30	-0.209	204.5	-0.687		
65.33	-0.207	204.5	-0.687		
65.37	-0.207	204.5	-0.687		
65.40	-0.207	204.6	-0.6861		
65.43	-0.205	204.6	-0.6861		
65.47	-0.205	204.6	-0.6861		
65.50	-0.203	204.6	-0.6853		
65.55	-0.202	204.6	-0.6853		
65.58	-0.202	204.6	-0.6853		
65.60	-0.202	204.6	-0.6844		
65.63	-0.201	204.6	-0.6844		
65.67	-0.199	204.6	-0.6844		
65.70	-0.199	204.7	-0.6835		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
65.73	-0.198	204.7	-0.6826		
65.77	-0.197	204.7	-0.6826		
65.80	-0.197	204.7	-0.6826		
65.83	-0.196	204.7	-0.6817		
65.87	-0.194	204.8	-0.6817		
65.90	-0.193	204.8	-0.6808		
65.93	-0.193	204.8	-0.6799		
65.97	-0.192	204.8	-0.679		
66.00	-0.191	204.9	-0.679		
66.03	-0.19	204.9	-0.679		
66.07	-0.188	204.9	-0.6773		
66.10	-0.187	205	-0.6773		
66.13	-0.186	205	-0.6773		
66.17	-0.186	205	-0.6764		
66.20	-0.185	205	-0.6755		
66.23	-0.183	205.1	-0.6746		
66.27	-0.182	205.1	-0.6746		
66.30	-0.181	205.1	-0.6728		
66.33	-0.179	205.2	-0.6728		
66.37	-0.177	205.2	-0.6728		
66.40	-0.177	205.2	-0.6719		
66.43	-0.177	205.2	-0.6711		
66.47	-0.176	205.3	-0.6702		
66.50	-0.173	205.4	-0.6693		
66.53	-0.173	205.4	-0.6684		
66.57	-0.171	205.4	-0.6684		
66.60	-0.168	205.4	-0.6675		
66.63	-0.168	205.5	-0.6666		
66.67	-0.17	205.5	-0.6666		
66.70	-0.167	205.6	-0.6648		
66.73	-0.165	205.6	-0.664		
66.77	-0.164	205.7	-0.6622		
66.80	-0.161	205.8	-0.6622		
66.83	-0.16	205.8	-0.6613		
66.87	-0.16	205.8	-0.6604		
66.90	-0.159	205.8	-0.6586		
66.93	-0.155	205.9	-0.6577		
66.97	-0.157	205.9	-0.6569		
67.02	-0.154	206	-0.656		
67.05	-0.154	206	-0.6551		
67.07	-0.151	206.1	-0.6533		
67.10	-0.15	206.2	-0.6515		
67.13	-0.147	206.3	-0.6515		
67.17	-0.146	206.3	-0.6506		
67.20	-0.146	206.3	-0.6498		
67.23	-0.145	206.4	-0.648		
67.27	-0.143	206.4	-0.6471		
67.30	-0.14	206.5	-0.6453		
67.33	-0.139	206.6	-0.6435		
67.37	-0.137	206.6	-0.6435		
67.40	-0.135	206.6	-0.6427		
67.43	-0.135	206.7	-0.6409		
67.47	-0.134	206.8	-0.6391		
67.50	-0.13	206.9	-0.6382		
67.53	-0.13	206.9	-0.6364		
67.57	-0.129	207	-0.6347		
67.60	-0.126	207.1	-0.6329		
67.63	-0.122	207.2	-0.6329		
67.67	-0.123	207.2	-0.632		
67.70	-0.123	207.2	-0.6311		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
67.73	-0.12	207.3	-0.6293		
67.77	-0.118	207.4	-0.6276		
67.80	-0.116	207.5	-0.6258		
67.83	-0.114	207.6	-0.624		
67.87	-0.112	207.7	-0.624		
67.90	-0.11	207.7	-0.6222		
67.93	-0.11	207.8	-0.6205		
67.97	-0.107	207.9	-0.6187		
68.00	-0.105	208	-0.6169		
68.03	-0.105	208	-0.6151		
68.07	-0.103	208.1	-0.6125		
68.10	-0.099	208.2	-0.6125		
68.13	-0.097	208.3	-0.6107		
68.17	-0.096	208.4	-0.6089		
68.20	-0.096	208.4	-0.6071		
68.23	-0.094	208.5	-0.6054		
68.27	-0.092	208.6	-0.6027		
68.30	-0.089	208.7	-0.6009		
68.33	-0.087	208.8	-0.5992		
68.37	-0.085	208.9	-0.5992		
68.40	-0.083	209	-0.5974		
68.43	-0.083	209	-0.5947		
68.48	-0.08	209.2	-0.5929		
68.52	-0.077	209.3	-0.5912		
68.55	-0.077	209.3	-0.5894		
68.58	-0.075	209.4	-0.5867		
68.60	-0.073	209.5	-0.5841		
68.63	-0.07	209.6	-0.5823		
68.67	-0.07	209.7	-0.5796		
68.70	-0.066	209.8	-0.5796		
68.73	-0.063	209.8	-0.577		
68.77	-0.063	209.9	-0.5752		
68.80	-0.063	210	-0.5725		
68.83	-0.058	210.1	-0.5699		
68.87	-0.057	210.2	-0.5681		
68.90	-0.057	210.3	-0.5654		
68.93	-0.052	210.4	-0.5654		
68.97	-0.051	210.4	-0.5619		
69.00	-0.051	210.5	-0.5601		
69.03	-0.048	210.7	-0.5574		
69.07	-0.045	210.8	-0.5539		
69.10	-0.042	210.9	-0.5521		
69.13	-0.043	211	-0.5503		
69.17	-0.038	211.1	-0.5503		
69.20	-0.037	211.1	-0.5477		
69.23	-0.037	211.2	-0.545		
69.27	-0.034	211.3	-0.5415		
69.30	-0.031	211.5	-0.5388		
69.33	-0.03	211.5	-0.5361		
69.37	-0.028	211.7	-0.5335		
69.40	-0.025	211.8	-0.5299		
69.43	-0.022	212	-0.5299		
69.47	-0.02	212	-0.5273		
69.50	-0.02	212	-0.5246		
69.53	-0.019	212.2	-0.5219		
69.57	-0.014	212.3	-0.5175		
69.60	-0.014	212.4	-0.5148		
69.63	-0.011	212.5	-0.5113		
69.67	-0.008	212.7	-0.5113		
69.70	-0.006	212.7	-0.5086		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
69.73	-0.006	212.8	-0.506		
69.77	-0.004	212.9	-0.5024		
69.80	0	213	-0.4989		
69.83	0.001	213.1	-0.4971		
69.87	0.004	213.3	-0.4935		
69.92	0.005	213.4	-0.4909		
69.95	0.007	213.5	-0.4882		
69.98	0.009	213.6	-0.4855		
70.02	0.013	213.7	-0.4855		
70.05	0.014	213.7	-0.482		
70.07	0.014	213.8	-0.4802		
70.10	0.016	214	-0.4758		
70.13	0.02	214.1	-0.4731		
70.17	0.021	214.2	-0.4704		
70.20	0.022	214.3	-0.4669		
70.23	0.028	214.5	-0.4669		
70.27	0.027	214.5	-0.4625		
70.30	0.027	214.5	-0.4607		
70.33	0.031	214.7	-0.4562		
70.37	0.034	214.8	-0.4527		
70.40	0.035	214.9	-0.45		
70.43	0.038	215	-0.4465		
70.47	0.042	215.2	-0.4465		
70.50	0.042	215.2	-0.4429		
70.53	0.042	215.2	-0.4403		
70.57	0.044	215.4	-0.4367		
70.60	0.047	215.5	-0.4332		
70.63	0.05	215.6	-0.4296		
70.67	0.051	215.8	-0.4261		
70.70	0.055	215.9	-0.4261		
70.73	0.056	215.9	-0.4225		
70.77	0.056	216	-0.419		
70.80	0.057	216.2	-0.4154		
70.83	0.062	216.3	-0.4119		
70.87	0.064	216.4	-0.4074		
70.90	0.066	216.6	-0.4048		
70.93	0.069	216.7	-0.4048		
70.97	0.069	216.7	-0.4012		
71.00	0.07	216.8	-0.3986		
71.03	0.072	216.9	-0.3941		
71.07	0.076	217.1	-0.3906		
71.10	0.077	217.2	-0.3879		
71.13	0.079	217.3	-0.3879		
71.17	0.081	217.3	-0.3835		
71.20	0.081	217.4	-0.3808		
71.23	0.083	217.5	-0.3764		
71.27	0.087	217.7	-0.3719		
71.30	0.089	217.8	-0.3693		
71.33	0.091	217.9	-0.3648		
71.38	0.092	218	-0.3622		
71.42	0.094	218.1	-0.3586		
71.43	0.096	218.3	-0.3559		
71.47	0.099	218.4	-0.3559		
71.50	0.1	218.4	-0.3515		
71.53	0.1	218.5	-0.3488		
71.57	0.103	218.6	-0.3435		
71.60	0.107	218.8	-0.3409		
71.63	0.105	218.9	-0.3382		
71.67	0.109	219	-0.3329		
71.70	0.113	219.2	-0.3329		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
71.73	0.114	219.2	-0.3284		
71.77	0.114	219.3	-0.3258		
71.80	0.115	219.4	-0.3213		
71.83	0.118	219.5	-0.3178		
71.87	0.12	219.6	-0.3142		
71.90	0.121	219.7	-0.3107		
71.93	0.124	219.9	-0.3107		
71.97	0.126	219.9	-0.3071		
72.00	0.126	220	-0.3027		
72.03	0.127	220.1	-0.2991		
72.07	0.13	220.3	-0.2956		
72.10	0.132	220.4	-0.2929		
72.13	0.133	220.5	-0.2876		
72.17	0.136	220.6	-0.2876		
72.20	0.138	220.6	-0.2832		
72.23	0.138	220.7	-0.2805		
72.27	0.139	220.8	-0.2761		
72.30	0.142	221	-0.2725		
72.33	0.144	221.1	-0.269		
72.37	0.145	221.2	-0.2654		
72.40	0.147	221.3	-0.2654		
72.43	0.15	221.3	-0.261		
72.47	0.15	221.4	-0.2574		
72.50	0.15	221.5	-0.2548		
72.53	0.153	221.7	-0.2503		
72.57	0.155	221.8	-0.2468		
72.60	0.156	221.9	-0.2432		
72.63	0.158	222	-0.2432		
72.67	0.16	222	-0.2397		
72.70	0.16	222.1	-0.2361		
72.73	0.162	222.2	-0.2317		
72.77	0.164	222.3	-0.2281		
72.82	0.165	222.4	-0.2255		
72.85	0.166	222.5	-0.2219		
72.87	0.168	222.7	-0.2175		
72.90	0.169	222.8	-0.2157		
72.93	0.17	222.9	-0.2121		
72.97	0.173	223	-0.2121		
73.00	0.175	223	-0.2086		
73.03	0.175	223.1	-0.205		
73.07	0.176	223.1	-0.2015		
73.10	0.178	223.3	-0.1979		
73.13	0.179	223.4	-0.1953		
73.17	0.181	223.5	-0.1917		
73.20	0.182	223.6	-0.1917		
73.23	0.184	223.6	-0.1882		
73.27	0.184	223.7	-0.1846		
73.30	0.185	223.8	-0.182		
73.33	0.187	223.9	-0.1784		
73.37	0.188	224	-0.1766		
73.40	0.189	224.1	-0.1731		
73.43	0.191	224.2	-0.1731		
73.47	0.193	224.2	-0.1695		
73.50	0.193	224.3	-0.1669		
73.53	0.193	224.4	-0.1642		
73.57	0.195	224.5	-0.1607		
73.60	0.196	224.6	-0.158		
73.63	0.197	224.7	-0.1553		
73.67	0.199	224.8	-0.1553		
73.70	0.2	224.8	-0.1518		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
73.73	0.2	224.9	-0.1482			
73.77	0.201	225	-0.1456			
73.80	0.203	225.1	-0.1429			
73.83	0.203	225.2	-0.1402			
73.87	0.205	225.3	-0.1376			
73.90	0.206	225.4	-0.1376			
73.93	0.207	225.4	-0.134			
73.97	0.207	225.4	-0.1314			
74.00	0.208	225.5	-0.1287			
74.03	0.21	225.6	-0.126			
74.07	0.21	225.7	-0.1243			
74.10	0.211	225.8	-0.1216			
74.13	0.212	225.9	-0.1216			
74.17	0.213	225.9	-0.1189			
74.20	0.213	226	-0.1163			
74.23	0.214	226.1	-0.1136			
74.28	0.216	226.1	-0.111			
74.32	0.216	226.2	-0.1092			
74.33	0.217	226.3	-0.1065			
74.37	0.219	226.4	-0.1039			
74.40	0.218	226.5	-0.1021			
74.43	0.219	226.5	-0.1003			
74.47	0.22	226.6	-0.1003			
74.50	0.221	226.6	-0.0976			
74.53	0.221	226.7	-0.0959			
74.57	0.222	226.8	-0.0941			
74.60	0.222	226.8	-0.0923			
74.63	0.224	226.9	-0.0897			
74.67	0.224	227	-0.087			
74.70	0.225	227.1	-0.087			
74.73	0.226	227.1	-0.0861			
74.77	0.226	227.1	-0.0843			
74.80	0.226	227.2	-0.0826			
74.83	0.226	227.3	-0.0808			
74.87	0.227	227.3	-0.079			
74.90	0.228	227.5	-0.0772			
74.93	0.228	227.5	-0.0772			
74.97	0.228	227.5	-0.0763			
75.00	0.228	227.6	-0.0746			
75.03	0.233	227.7	-0.0692			
75.07	0.231	227.7	-0.0692			
75.10	0.228	227.8	-0.0692			
75.13	0.228	227.8	-0.0683			
75.17	0.231	227.9	-0.0683			
75.20	0.231	227.9	-0.0657			
75.23	0.231	228	-0.0639			
75.27	0.232	228	-0.0621			
75.30	0.234	228.1	-0.0604			
75.33	0.232	228.2	-0.0595			
75.37	0.231	228.2	-0.0595			
75.40	0.232	228.3	-0.0595			
75.43	0.233	228.3	-0.0577			
75.47	0.233	228.3	-0.0568			
75.50	0.233	228.4	-0.0559			
75.53	0.234	228.4	-0.0541			
75.57	0.233	228.5	-0.0541			
75.60	0.233	228.5	-0.0533			
75.63	0.233	228.6	-0.0533			
75.67	0.236	228.6	-0.0524			
75.70	0.236	228.7	-0.0506			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
75.75	0.232	228.8	-0.0506			
75.77	0.232	228.8	-0.0506			
75.80	0.232	228.8	-0.0497			
75.83	0.234	228.9	-0.0488			
75.87	0.234	228.9	-0.0479			
75.90	0.233	229	-0.0479			
75.93	0.233	229	-0.047			
75.97	0.233	229	-0.047			
76.00	0.234	229	-0.047			
76.03	0.234	229.1	-0.0453			
76.07	0.233	229.1	-0.0453			
76.10	0.232	229.2	-0.0453			
76.13	0.232	229.2	-0.0453			
76.17	0.232	229.3	-0.0444			
76.20	0.234	229.3	-0.0444			
76.23	0.232	229.3	-0.0435			
76.27	0.232	229.3	-0.0435			
76.30	0.231	229.4	-0.0435			
76.33	0.23	229.4	-0.0435			
76.37	0.23	229.4	-0.0435			
76.40	0.23	229.5	-0.0435			
76.43	0.231	229.5	-0.0435			
76.47	0.229	229.5	-0.0426			
76.50	0.229	229.5	-0.0435			
76.53	0.229	229.6	-0.0435			
76.57	0.228	229.6	-0.0426			
76.60	0.228	229.6	-0.0426			
76.63	0.227	229.7	-0.0426			
76.67	0.226	229.7	-0.0426			
76.70	0.226	229.7	-0.0426			
76.73	0.226	229.7	-0.0426			
76.77	0.226	229.7	-0.0435			
76.80	0.225	229.8	-0.0435			
76.83	0.224	229.8	-0.0435			
76.87	0.223	229.8	-0.0435			
76.90	0.222	229.8	-0.0435			
76.93	0.223	229.8	-0.0444			
76.97	0.223	229.9	-0.0435			
77.00	0.22	229.9	-0.0444			
77.03	0.22	229.9	-0.0444			
77.07	0.219	229.9	-0.0453			
77.10	0.218	229.9	-0.0453			
77.13	0.218	229.9	-0.0453			
77.18	0.216	230	-0.0462			
77.22	0.216	230	-0.0462			
77.23	0.216	230	-0.0462			
77.27	0.215	230	-0.0462			
77.30	0.215	230	-0.047			
77.33	0.214	230	-0.047			
77.37	0.212	230	-0.0479			
77.40	0.211	230	-0.0479			
77.43	0.211	230.1	-0.0488			
77.47	0.209	230.1	-0.0488			
77.50	0.209	230.1	-0.0488			
77.53	0.209	230.1	-0.0488			
77.57	0.206	230.1	-0.0497			
77.60	0.205	230.1	-0.0506			
77.63	0.205	230.1	-0.0506			
77.67	0.204	230.1	-0.0515			
77.70	0.202	230.1	-0.0515			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
77.73	0.201	230.1	-0.0524			
77.77	0.201	230.1	-0.0524			
77.80	0.2	230.1	-0.0533			
77.83	0.198	230.1	-0.0533			
77.87	0.197	230.1	-0.0541			
77.90	0.196	230.1	-0.055			
77.93	0.195	230.1	-0.055			
77.97	0.193	230.1	-0.0559			
78.00	0.193	230.1	-0.0559			
78.03	0.193	230.1	-0.0568			
78.07	0.191	230.1	-0.0577			
78.10	0.19	230.1	-0.0586			
78.13	0.187	230.1	-0.0595			
78.17	0.185	230	-0.0595			
78.20	0.184	230	-0.0604			
78.23	0.184	230	-0.0612			
78.27	0.184	230	-0.0612			
78.30	0.183	230	-0.0621			
78.33	0.181	230	-0.063			
78.37	0.179	230	-0.0639			
78.40	0.175	230	-0.0639			
78.43	0.175	230	-0.0666			
78.47	0.175	230	-0.0675			
78.50	0.175	230	-0.0675			
78.53	0.174	229.9	-0.0683			
78.57	0.17	229.9	-0.0692			
78.60	0.17	229.9	-0.071			
78.65	0.166	229.9	-0.0719			
78.68	0.167	229.9	-0.0719			
78.70	0.164	229.8	-0.0737			
78.73	0.163	229.8	-0.0737			
78.77	0.162	229.8	-0.0746			
78.80	0.162	229.8	-0.0754			
78.83	0.162	229.8	-0.0763			
78.87	0.158	229.7	-0.0781			
78.90	0.154	229.7	-0.0799			
78.93	0.154	229.7	-0.0808			
78.97	0.153	229.7	-0.0808			
79.00	0.153	229.7	-0.0817			
79.03	0.153	229.7	-0.0817			
79.07	0.148	229.6	-0.0843			
79.10	0.145	229.6	-0.0861			
79.13	0.145	229.5	-0.087			
79.17	0.144	229.5	-0.0879			
79.20	0.143	229.5	-0.0879			
79.23	0.139	229.4	-0.0888			
79.27	0.139	229.4	-0.0897			
79.30	0.139	229.4	-0.0914			
79.33	0.135	229.4	-0.0932			
79.37	0.133	229.3	-0.0959			
79.40	0.13	229.3	-0.0976			
79.43	0.128	229.2	-0.0976			
79.47	0.129	229.2	-0.0985			
79.50	0.129	229.2	-0.0985			
79.53	0.127	229.2	-0.1012			
79.57	0.121	229.1	-0.1039			
79.60	0.12	229.1	-0.1047			
79.63	0.12	229	-0.1056			
79.67	0.119	229	-0.1056			
79.70	0.113	228.9	-0.1065			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
79.73	0.113	228.9	-0.1101			
79.77	0.114	228.9	-0.1101			
79.80	0.111	228.9	-0.1127			
79.83	0.11	228.8	-0.1136			
79.87	0.108	228.8	-0.1154			
79.90	0.105	228.7	-0.1154			
79.93	0.099	228.6	-0.1181			
79.97	0.099	228.6	-0.1207			
80.00	0.1	228.6	-0.1216			
80.03	0.099	228.5	-0.1234			
80.08	0.095	228.4	-0.126			
80.12	0.095	228.4	-0.126			
80.13	0.094	228.4	-0.1278			
80.17	0.089	228.3	-0.1314			
80.20	0.088	228.2	-0.1323			
80.23	0.086	228.2	-0.1323			
80.27	0.084	228.1	-0.1349			
80.30	0.084	228.1	-0.1367			
80.33	0.081	228.1	-0.1394			
80.37	0.078	228	-0.1411			
80.40	0.077	227.9	-0.1429			
80.43	0.075	227.9	-0.1465			
80.47	0.073	227.8	-0.1465			
80.50	0.068	227.7	-0.1482			
80.53	0.068	227.7	-0.1509			
80.57	0.068	227.7	-0.1527			
80.60	0.065	227.6	-0.1544			
80.63	0.063	227.5	-0.1571			
80.67	0.061	227.5	-0.1589			
80.70	0.059	227.4	-0.1589			
80.73	0.055	227.3	-0.1616			
80.77	0.055	227.3	-0.1642			
80.80	0.055	227.2	-0.1669			
80.83	0.051	227.1	-0.1695			
80.87	0.049	227	-0.1722			
80.90	0.047	227	-0.174			
80.93	0.045	226.9	-0.174			
80.97	0.041	226.8	-0.1775			
81.00	0.041	226.8	-0.1784			
81.03	0.041	226.7	-0.1811			
81.07	0.037	226.6	-0.1846			
81.10	0.035	226.6	-0.1864			
81.13	0.032	226.5	-0.1891			
81.17	0.03	226.4	-0.1891			
81.20	0.028	226.3	-0.1917			
81.23	0.028	226.3	-0.1944			
81.27	0.026	226.2	-0.1979			
81.30	0.022	226.1	-0.2015			
81.33	0.021	226	-0.2042			
81.37	0.019	226	-0.2068			
81.40	0.015	225.9	-0.2068			
81.43	0.014	225.8	-0.2104			
81.47	0.014	225.8	-0.2121			
81.50	0.012	225.7	-0.2148			
81.55	0.007	225.5	-0.2192			
81.58	0.007	225.5	-0.221			
81.60	0.005	225.4	-0.2237			
81.63	0.002	225.3	-0.2272			
81.67	-0.001	225.2	-0.2299			
81.70	-0.001	225.2	-0.2317			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
81.73	-0.004	225.1	-0.2317		
81.77	-0.007	225	-0.2352		
81.80	-0.007	225	-0.2379		
81.83	-0.008	224.9	-0.2414		
81.87	-0.012	224.8	-0.245		
81.90	-0.014	224.7	-0.2477		
81.93	-0.015	224.6	-0.2512		
81.97	-0.019	224.5	-0.2512		
82.00	-0.022	224.3	-0.2548		
82.03	-0.022	224.3	-0.2583		
82.07	-0.023	224.2	-0.261		
82.10	-0.026	224.1	-0.2645		
82.13	-0.028	224	-0.2681		
82.17	-0.03	223.9	-0.2716		
82.20	-0.034	223.8	-0.2716		
82.23	-0.035	223.7	-0.2752		
82.27	-0.035	223.7	-0.2778		
82.30	-0.037	223.6	-0.2814		
82.33	-0.039	223.5	-0.2849		
82.37	-0.043	223.4	-0.2885		
82.40	-0.044	223.3	-0.2929		
82.43	-0.046	223.2	-0.2929		
82.47	-0.05	223.1	-0.2965		
82.50	-0.05	223.1	-0.3		
82.53	-0.051	223	-0.3027		
82.57	-0.053	222.9	-0.3071		
82.60	-0.056	222.8	-0.3107		
82.63	-0.058	222.7	-0.3151		
82.67	-0.062	222.5	-0.3151		
82.70	-0.063	222.4	-0.3187		
82.73	-0.063	222.4	-0.3222		
82.77	-0.064	222.3	-0.3249		
82.80	-0.068	222.2	-0.3302		
82.83	-0.07	222.1	-0.3329		
82.87	-0.072	222	-0.3373		
82.90	-0.074	221.8	-0.3373		
82.93	-0.076	221.7	-0.3409		
82.98	-0.078	221.6	-0.348		
83.02	-0.079	221.5	-0.348		
83.03	-0.082	221.4	-0.3506		
83.07	-0.082	221.4	-0.3542		
83.10	-0.084	221.3	-0.3586		
83.13	-0.086	221.2	-0.363		
83.17	-0.089	221	-0.3666		
83.20	-0.09	220.9	-0.3701		
83.23	-0.093	220.8	-0.3701		
83.27	-0.094	220.7	-0.3746		
83.30	-0.094	220.7	-0.3772		
83.33	-0.097	220.6	-0.3826		
83.37	-0.1	220.4	-0.387		
83.40	-0.102	220.3	-0.3906		
83.43	-0.103	220.2	-0.3941		
83.47	-0.105	220	-0.3941		
83.50	-0.108	219.9	-0.3986		
83.53	-0.108	219.9	-0.4021		
83.57	-0.11	219.8	-0.4057		
83.60	-0.112	219.7	-0.4092		
83.63	-0.114	219.6	-0.4128		
83.67	-0.115	219.4	-0.4163		
83.70	-0.118	219.3	-0.4163		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
83.73	-0.12	219.2	-0.4207		
83.77	-0.12	219.2	-0.4243		
83.80	-0.121	219.1	-0.4287		
83.83	-0.123	218.9	-0.4332		
83.87	-0.126	218.8	-0.4376		
83.90	-0.127	218.7	-0.4412		
83.93	-0.13	218.5	-0.4412		
83.97	-0.131	218.4	-0.4456		
84.00	-0.131	218.4	-0.45		
84.03	-0.133	218.3	-0.4536		
84.07	-0.135	218.1	-0.458		
84.10	-0.138	218	-0.4625		
84.13	-0.138	217.9	-0.4651		
84.17	-0.14	217.8	-0.4651		
84.20	-0.144	217.6	-0.4696		
84.23	-0.144	217.6	-0.474		
84.27	-0.143	217.5	-0.4776		
84.30	-0.146	217.4	-0.482		
84.33	-0.148	217.3	-0.4855		
84.37	-0.149	217.2	-0.4891		
84.40	-0.151	217	-0.4891		
84.45	-0.152	216.9	-0.4971		
84.48	-0.154	216.8	-0.5015		
84.50	-0.156	216.7	-0.5015		
84.53	-0.157	216.6	-0.5051		
84.57	-0.157	216.6	-0.5086		
84.60	-0.158	216.4	-0.5122		
84.63	-0.16	216.3	-0.5166		
84.67	-0.162	216.2	-0.5219		
84.70	-0.163	216.1	-0.5255		
84.73	-0.165	215.9	-0.5255		
84.77	-0.166	215.8	-0.529		
84.80	-0.166	215.8	-0.5335		
84.83	-0.167	215.7	-0.537		
84.87	-0.17	215.5	-0.5415		
84.90	-0.171	215.4	-0.5441		
84.93	-0.171	215.3	-0.5468		
84.97	-0.174	215.2	-0.5468		
85.00	-0.175	215.1	-0.5521		
85.03	-0.175	215.1	-0.5557		
85.07	-0.177	215	-0.5592		
85.10	-0.178	214.8	-0.5628		
85.13	-0.18	214.7	-0.5663		
85.17	-0.18	214.6	-0.5699		
85.20	-0.182	214.5	-0.5699		
85.23	-0.183	214.4	-0.5734		
85.27	-0.183	214.4	-0.577		
85.30	-0.185	214.3	-0.5814		
85.33	-0.186	214.2	-0.5841		
85.37	-0.187	214.1	-0.5876		
85.40	-0.188	214	-0.5912		
85.43	-0.19	213.8	-0.5912		
85.47	-0.191	213.7	-0.5956		
85.50	-0.191	213.7	-0.5983		
85.53	-0.192	213.6	-0.6018		
85.57	-0.193	213.5	-0.6045		
85.60	-0.194	213.4	-0.608		
85.63	-0.196	213.3	-0.6116		
85.67	-0.197	213.2	-0.6116		
85.70	-0.197	213.1	-0.6151		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
85.73	-0.197	213.1	-0.6178		
85.77	-0.198	213	-0.6213		
85.80	-0.2	212.9	-0.6249		
85.83	-0.201	212.8	-0.6276		
85.87	-0.2	212.7	-0.6302		
85.92	-0.202	212.6	-0.632		
85.95	-0.202	212.5	-0.6338		
85.97	-0.203	212.4	-0.6373		
86.00	-0.205	212.3	-0.6373		
86.03	-0.205	212.2	-0.64		
86.07	-0.205	212.2	-0.6427		
86.10	-0.206	212.1	-0.6462		
86.13	-0.208	212	-0.6489		
86.17	-0.208	211.9	-0.6506		
86.20	-0.208	211.8	-0.6542		
86.23	-0.209	211.7	-0.6542		
86.27	-0.21	211.6	-0.6569		
86.30	-0.21	211.6	-0.6595		
86.33	-0.21	211.5	-0.6613		
86.37	-0.211	211.5	-0.664		
86.40	-0.213	211.4	-0.6675		
86.43	-0.212	211.3	-0.6693		
86.47	-0.213	211.2	-0.6693		
86.50	-0.214	211.1	-0.6719		
86.53	-0.214	211.1	-0.6737		
86.57	-0.214	211	-0.6764		
86.60	-0.215	211	-0.679		
86.63	-0.216	210.9	-0.6808		
86.67	-0.216	210.8	-0.6835		
86.70	-0.216	210.7	-0.6835		
86.73	-0.217	210.7	-0.6853		
86.77	-0.217	210.7	-0.6879		
86.80	-0.217	210.6	-0.6897		
86.83	-0.217	210.5	-0.6915		
86.87	-0.218	210.5	-0.6941		
86.90	-0.218	210.4	-0.6959		
86.93	-0.219	210.3	-0.6959		
86.97	-0.219	210.3	-0.6977		
87.00	-0.219	210.3	-0.6995		
87.03	-0.219	210.2	-0.7012		
87.07	-0.22	210.1	-0.703		
87.10	-0.219	210.1	-0.7048		
87.13	-0.219	210	-0.7066		
87.17	-0.22	209.9	-0.7066		
87.20	-0.22	209.9	-0.7083		
87.23	-0.22	209.9	-0.7092		
87.27	-0.22	209.8	-0.711		
87.30	-0.22	209.8	-0.7128		
87.35	-0.22	209.7	-0.7137		
87.38	-0.22	209.7	-0.7146		
87.40	-0.22	209.6	-0.7163		
87.43	-0.221	209.6	-0.7181		
87.47	-0.22	209.6	-0.7181		
87.50	-0.22	209.5	-0.7199		
87.53	-0.22	209.5	-0.7199		
87.57	-0.22	209.5	-0.7208		
87.60	-0.22	209.5	-0.7208		
87.63	-0.22	209.4	-0.7225		
87.67	-0.22	209.4	-0.7234		
87.70	-0.22	209.3	-0.7243		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
87.73	-0.22	209.3	-0.7252		
87.77	-0.219	209.3	-0.7252		
87.80	-0.219	209.3	-0.7252		
87.83	-0.218	209.3	-0.7261		
87.87	-0.219	209.2	-0.727		
87.90	-0.218	209.2	-0.727		
87.93	-0.218	209.2	-0.7279		
87.97	-0.218	209.2	-0.7279		
88.00	-0.217	209.2	-0.7279		
88.03	-0.217	209.2	-0.7279		
88.07	-0.217	209.1	-0.7288		
88.10	-0.216	209.1	-0.7288		
88.13	-0.216	209.1	-0.7288		
88.17	-0.216	209.1	-0.7288		
88.20	-0.215	209.1	-0.7288		
88.23	-0.215	209.1	-0.7288		
88.27	-0.215	209.1	-0.7296		
88.30	-0.214	209.1	-0.7296		
88.33	-0.214	209.1	-0.7296		
88.37	-0.213	209.1	-0.7296		
88.40	-0.212	209.1	-0.7296		
88.43	-0.211	209.1	-0.7296		
88.47	-0.21	209.1	-0.7288		
88.50	-0.21	209.1	-0.7288		
88.53	-0.21	209.1	-0.7288		
88.57	-0.21	209.1	-0.7288		
88.60	-0.209	209.1	-0.7288		
88.63	-0.208	209.1	-0.7279		
88.67	-0.207	209.1	-0.7279		
88.70	-0.206	209.1	-0.7279		
88.73	-0.206	209.1	-0.7279		
88.77	-0.206	209.1	-0.727		
88.82	-0.204	209.1	-0.727		
88.85	-0.204	209.1	-0.727		
88.87	-0.203	209.1	-0.7261		
88.90	-0.202	209.1	-0.7261		
88.93	-0.202	209.2	-0.7261		
88.97	-0.201	209.2	-0.7252		
89.00	-0.2	209.2	-0.7243		
89.03	-0.198	209.2	-0.7243		
89.07	-0.198	209.2	-0.7243		
89.10	-0.198	209.2	-0.7234		
89.13	-0.197	209.3	-0.7234		
89.17	-0.195	209.3	-0.7225		
89.20	-0.195	209.3	-0.7225		
89.23	-0.193	209.3	-0.7217		
89.27	-0.192	209.4	-0.7217		
89.30	-0.192	209.4	-0.7208		
89.33	-0.191	209.4	-0.7199		
89.37	-0.19	209.4	-0.7199		
89.40	-0.189	209.4	-0.719		
89.43	-0.187	209.5	-0.7181		
89.47	-0.186	209.5	-0.7172		
89.50	-0.184	209.6	-0.7172		
89.53	-0.184	209.6	-0.7163		
89.57	-0.184	209.6	-0.7163		
89.60	-0.183	209.6	-0.7154		
89.63	-0.181	209.7	-0.7146		
89.67	-0.18	209.7	-0.7137		
89.70	-0.178	209.7	-0.7128		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
89.73	-0.176	209.8	-0.7128		
89.77	-0.176	209.8	-0.7119		
89.80	-0.176	209.8	-0.711		
89.83	-0.175	209.9	-0.7101		
89.87	-0.172	209.9	-0.7092		
89.90	-0.172	210	-0.7083		
89.93	-0.17	210	-0.7074		
89.97	-0.168	210.1	-0.7074		
90.00	-0.168	210.1	-0.7057		
90.03	-0.167	210.1	-0.7048		
90.07	-0.166	210.2	-0.7039		
90.10	-0.163	210.3	-0.703		
90.13	-0.162	210.3	-0.7021		
90.17	-0.159	210.4	-0.7003		
90.20	-0.159	210.4	-0.7003		
90.25	-0.158	210.5	-0.6986		
90.28	-0.157	210.5	-0.6977		
90.30	-0.153	210.6	-0.6977		
90.33	-0.153	210.6	-0.6959		
90.37	-0.154	210.7	-0.6959		
90.40	-0.152	210.7	-0.6941		
90.43	-0.149	210.8	-0.6924		
90.47	-0.146	210.9	-0.6906		
90.50	-0.147	210.9	-0.6906		
90.53	-0.145	211	-0.6906		
90.57	-0.145	211	-0.6888		
90.60	-0.143	211.1	-0.687		
90.63	-0.14	211.2	-0.6853		
90.67	-0.138	211.2	-0.6835		
90.70	-0.138	211.3	-0.6826		
90.73	-0.136	211.4	-0.6808		
90.77	-0.132	211.5	-0.6808		
90.80	-0.132	211.5	-0.679		
90.83	-0.132	211.5	-0.6782		
90.87	-0.13	211.6	-0.6764		
90.90	-0.127	211.7	-0.6746		
90.93	-0.127	211.7	-0.6737		
90.97	-0.125	211.9	-0.6719		
91.00	-0.121	212	-0.6719		
91.03	-0.121	212	-0.6693		
91.07	-0.121	212	-0.6684		
91.10	-0.119	212.1	-0.6666		
91.13	-0.115	212.2	-0.664		
91.17	-0.115	212.3	-0.6631		
91.20	-0.113	212.4	-0.6604		
91.23	-0.109	212.5	-0.6604		
91.27	-0.109	212.5	-0.6586		
91.30	-0.109	212.5	-0.6569		
91.33	-0.106	212.7	-0.6551		
91.37	-0.103	212.7	-0.6533		
91.40	-0.102	212.8	-0.6515		
91.43	-0.1	212.9	-0.6489		
91.47	-0.097	213	-0.6489		
91.50	-0.097	213	-0.6462		
91.53	-0.095	213.1	-0.6453		
91.57	-0.094	213.2	-0.6435		
91.60	-0.092	213.3	-0.6409		
91.63	-0.089	213.4	-0.6382		
91.67	-0.087	213.5	-0.6364		
91.72	-0.085	213.6	-0.6347		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
91.75	-0.084	213.7	-0.6329		
91.77	-0.082	213.8	-0.6311		
91.80	-0.078	213.9	-0.6311		
91.83	-0.078	213.9	-0.6293		
91.87	-0.078	214	-0.6276		
91.90	-0.075	214.1	-0.6249		
91.93	-0.072	214.2	-0.6222		
91.97	-0.07	214.3	-0.6196		
92.00	-0.068	214.4	-0.6169		
92.03	-0.065	214.5	-0.6169		
92.07	-0.063	214.5	-0.6151		
92.10	-0.063	214.6	-0.6125		
92.13	-0.062	214.7	-0.6098		
92.17	-0.059	214.8	-0.6071		
92.20	-0.057	214.9	-0.6054		
92.23	-0.056	215	-0.6018		
92.27	-0.051	215.2	-0.6018		
92.30	-0.051	215.2	-0.5992		
92.33	-0.051	215.3	-0.5974		
92.37	-0.048	215.4	-0.5938		
92.40	-0.044	215.5	-0.5912		
92.43	-0.043	215.6	-0.5894		
92.47	-0.042	215.7	-0.5867		
92.50	-0.038	215.8	-0.5867		
92.53	-0.037	215.8	-0.5841		
92.57	-0.037	215.9	-0.5814		
92.60	-0.035	216.1	-0.5787		
92.63	-0.031	216.2	-0.5752		
92.67	-0.03	216.3	-0.5725		
92.70	-0.028	216.5	-0.5699		
92.73	-0.023	216.6	-0.5699		
92.77	-0.023	216.6	-0.5663		
92.80	-0.023	216.7	-0.5645		
92.83	-0.02	216.8	-0.561		
92.87	-0.017	217	-0.5574		
92.90	-0.016	217.1	-0.5548		
92.93	-0.013	217.2	-0.5521		
92.97	-0.009	217.3	-0.5521		
93.00	-0.009	217.3	-0.5486		
93.03	-0.009	217.4	-0.5459		
93.07	-0.006	217.5	-0.5423		
93.10	-0.002	217.7	-0.5388		
93.13	-0.002	217.8	-0.5361		
93.18	0.001	217.9	-0.5335		
93.20	0.002	218	-0.5308		
93.23	0.005	218.2	-0.5281		
93.27	0.007	218.3	-0.5246		
93.30	0.01	218.4	-0.5246		
93.33	0.012	218.4	-0.521		
93.37	0.012	218.5	-0.5175		
93.40	0.014	218.7	-0.5139		
93.43	0.018	218.8	-0.5095		
93.47	0.019	218.9	-0.5068		
93.50	0.021	219.1	-0.5033		
93.53	0.025	219.2	-0.5033		
93.57	0.026	219.2	-0.4997		
93.60	0.026	219.3	-0.4971		
93.63	0.028	219.5	-0.4926		
93.67	0.032	219.6	-0.4891		
93.70	0.033	219.7	-0.4864		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
93.73	0.035	219.8	-0.4829			
93.77	0.039	220	-0.4829			
93.80	0.04	220	-0.4784			
93.83	0.04	220.1	-0.4758			
93.87	0.042	220.2	-0.4722			
93.90	0.046	220.4	-0.4687			
93.93	0.048	220.5	-0.4651			
93.97	0.049	220.6	-0.4616			
94.00	0.053	220.8	-0.4616			
94.03	0.054	220.8	-0.4571			
94.07	0.054	220.9	-0.4545			
94.10	0.057	221	-0.45			
94.13	0.06	221.2	-0.4465			
94.17	0.061	221.3	-0.4429			
94.20	0.063	221.4	-0.4394			
94.23	0.067	221.5	-0.4394			
94.27	0.068	221.5	-0.4349			
94.30	0.068	221.7	-0.4314			
94.33	0.07	221.8	-0.4278			
94.37	0.073	221.9	-0.4234			
94.40	0.076	222	-0.4207			
94.43	0.077	222.2	-0.4163			
94.47	0.08	222.3	-0.4163			
94.50	0.082	222.3	-0.4128			
94.53	0.082	222.4	-0.4092			
94.57	0.083	222.6	-0.4057			
94.62	0.088	222.7	-0.4021			
94.65	0.088	222.8	-0.3986			
94.67	0.089	222.9	-0.3959			
94.70	0.092	223.1	-0.3914			
94.73	0.094	223.1	-0.3888			
94.77	0.096	223.3	-0.3843			
94.80	0.1	223.4	-0.3843			
94.83	0.1	223.4	-0.3799			
94.87	0.1	223.5	-0.3772			
94.90	0.103	223.6	-0.3728			
94.93	0.106	223.8	-0.3684			
94.97	0.107	223.9	-0.3648			
95.00	0.109	224	-0.3604			
95.03	0.112	224.2	-0.3604			
95.07	0.113	224.2	-0.3559			
95.10	0.113	224.3	-0.3533			
95.13	0.115	224.4	-0.3488			
95.17	0.118	224.6	-0.3444			
95.20	0.12	224.7	-0.3409			
95.23	0.121	224.8	-0.3364			
95.27	0.124	224.9	-0.3364			
95.30	0.126	224.9	-0.3329			
95.33	0.126	225	-0.3293			
95.37	0.127	225.2	-0.3258			
95.40	0.131	225.3	-0.3213			
95.43	0.132	225.4	-0.3169			
95.47	0.135	225.5	-0.3133			
95.50	0.135	225.6	-0.3133			
95.53	0.137	225.6	-0.3098			
95.57	0.137	225.8	-0.3062			
95.60	0.139	225.9	-0.3018			
95.63	0.142	226	-0.2982			
95.67	0.143	226.1	-0.2947			
95.70	0.144	226.2	-0.2894			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
95.73	0.148	226.4	-0.2894			
95.77	0.149	226.4	-0.2849			
95.80	0.149	226.5	-0.2814			
95.83	0.151	226.6	-0.2769			
95.87	0.154	226.7	-0.2734			
95.90	0.155	226.8	-0.2698			
95.93	0.159	227	-0.2645			
95.97	0.158	227.1	-0.2645			
96.00	0.159	227.1	-0.2627			
96.03	0.159	227.2	-0.2592			
96.08	0.162	227.4	-0.2556			
96.12	0.164	227.4	-0.2521			
96.13	0.164	227.5	-0.2494			
96.17	0.166	227.7	-0.245			
96.20	0.169	227.8	-0.2414			
96.23	0.169	227.9	-0.2379			
96.27	0.17	228	-0.2343			
96.30	0.173	228.1	-0.2343			
96.33	0.174	228.1	-0.2299			
96.37	0.174	228.2	-0.2272			
96.40	0.175	228.3	-0.2237			
96.43	0.178	228.4	-0.2201			
96.47	0.179	228.5	-0.2166			
96.50	0.18	228.7	-0.2139			
96.53	0.182	228.8	-0.2139			
96.57	0.184	228.8	-0.2095			
96.60	0.184	228.9	-0.2068			
96.63	0.185	229	-0.2033			
96.67	0.187	229.1	-0.1997			
96.70	0.188	229.2	-0.1962			
96.73	0.189	229.3	-0.1935			
96.77	0.192	229.4	-0.1935			
96.80	0.192	229.4	-0.1891			
96.83	0.192	229.5	-0.1864			
96.87	0.193	229.6	-0.1837			
96.90	0.198	229.7	-0.1784			
96.93	0.196	229.8	-0.1775			
96.97	0.196	229.9	-0.1749			
97.00	0.198	230	-0.1749			
97.03	0.2	230	-0.1722			
97.07	0.2	230.1	-0.1687			
97.10	0.201	230.2	-0.166			
97.13	0.203	230.3	-0.1624			
97.17	0.203	230.4	-0.1598			
97.20	0.205	230.5	-0.1571			
97.23	0.206	230.6	-0.1571			
97.27	0.208	230.6	-0.1536			
97.30	0.208	230.6	-0.1509			
97.33	0.208	230.7	-0.1482			
97.37	0.209	230.8	-0.1456			
97.40	0.21	230.9	-0.1429			
97.43	0.211	231	-0.1402			
97.47	0.213	231.1	-0.1402			
97.52	0.213	231.2	-0.1358			
97.55	0.214	231.3	-0.1331			
97.57	0.215	231.3	-0.1331			
97.60	0.216	231.3	-0.1314			
97.63	0.216	231.4	-0.1287			
97.67	0.217	231.5	-0.1269			
97.70	0.219	231.6	-0.1234			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
97.73	0.218	231.7	-0.1216			
97.77	0.219	231.7	-0.1189			
97.80	0.22	231.8	-0.1189			
97.83	0.221	231.8	-0.1172			
97.87	0.221	231.9	-0.1145			
97.90	0.222	232	-0.1127			
97.93	0.223	232	-0.111			
97.97	0.222	232.1	-0.1092			
98.00	0.223	232.2	-0.1074			
98.03	0.224	232.3	-0.1074			
98.07	0.227	232.3	-0.1039			
98.10	0.227	232.4	-0.1021			
98.13	0.225	232.4	-0.1012			
98.17	0.226	232.5	-0.0994			
98.20	0.227	232.6	-0.0976			
98.23	0.23	232.6	-0.095			
98.27	0.228	232.7	-0.095			
98.30	0.227	232.7	-0.0941			
98.33	0.227	232.8	-0.0932			
98.37	0.229	232.9	-0.0905			
98.40	0.233	233	-0.0879			
98.43	0.229	233	-0.0879			
98.47	0.229	233.1	-0.0861			
98.50	0.231	233.1	-0.0861			
98.53	0.231	233.1	-0.0852			
98.57	0.231	233.2	-0.0834			
98.60	0.232	233.3	-0.0826			
98.63	0.232	233.3	-0.0808			
98.67	0.232	233.4	-0.0799			
98.70	0.232	233.4	-0.079			
98.73	0.233	233.5	-0.079			
98.77	0.234	233.5	-0.0781			
98.80	0.234	233.6	-0.0763			
98.83	0.233	233.6	-0.0754			
98.87	0.232	233.7	-0.0754			
98.90	0.234	233.7	-0.0737			
98.93	0.233	233.8	-0.0728			
98.98	0.233	233.8	-0.0719			
99.02	0.236	233.9	-0.071			
99.03	0.233	233.9	-0.071			
99.07	0.233	234	-0.071			
99.10	0.233	234	-0.0701			
99.13	0.233	234	-0.0692			
99.17	0.232	234.1	-0.0683			
99.20	0.234	234.1	-0.0683			
99.23	0.233	234.1	-0.0675			
99.27	0.235	234.2	-0.0657			
99.30	0.233	234.2	-0.0657			
99.33	0.232	234.2	-0.0666			
99.37	0.232	234.3	-0.0666			
99.40	0.232	234.3	-0.0657			
99.43	0.233	234.4	-0.0639			
99.47	0.232	234.4	-0.0639			
99.50	0.234	234.5	-0.063			
99.53	0.232	234.5	-0.063			
99.57	0.231	234.5	-0.063			
99.60	0.231	234.5	-0.063			
99.63	0.23	234.6	-0.063			
99.67	0.23	234.6	-0.063			
99.70	0.23	234.6	-0.063			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
99.73	0.23	234.7	-0.063		
99.77	0.23	234.7	-0.063		
99.80	0.231	234.7	-0.0621		
99.83	0.231	234.7	-0.0621		
99.87	0.229	234.7	-0.063		
99.90	0.227	234.8	-0.0621		
99.93	0.227	234.8	-0.063		
99.97	0.229	234.8	-0.0621		
100.00	0.226	234.9	-0.0621		
100.03	0.226	234.9	-0.063		
100.07	0.226	234.9	-0.063		
100.10	0.225	234.9	-0.063		
100.13	0.225	234.9	-0.0621		
100.17	0.225	235	-0.063		
100.20	0.222	235	-0.0639		
100.23	0.221	235	-0.0639		
100.27	0.221	235	-0.0639		
100.30	0.221	235	-0.0639		
100.33	0.221	235	-0.0639		
100.37	0.221	235.1	-0.0639		
100.42	0.219	235.1	-0.0657		
100.45	0.219	235.1	-0.0657		
100.47	0.218	235.1	-0.0657		
100.50	0.217	235.1	-0.0657		
100.53	0.216	235.2	-0.0666		
100.57	0.215	235.2	-0.0666		
100.60	0.214	235.2	-0.0666		
100.63	0.214	235.2	-0.0666		
100.67	0.213	235.2	-0.0675		
100.70	0.212	235.2	-0.0683		
100.73	0.211	235.2	-0.0683		
100.77	0.21	235.2	-0.0692		
100.80	0.209	235.2	-0.0692		
100.83	0.207	235.2	-0.0692		
100.87	0.207	235.2	-0.0701		
100.90	0.207	235.2	-0.0701		
100.93	0.206	235.2	-0.071		
100.97	0.205	235.2	-0.071		
101.00	0.204	235.2	-0.0719		
101.03	0.203	235.3	-0.0719		
101.07	0.2	235.3	-0.0719		
101.10	0.2	235.2	-0.0737		
101.13	0.202	235.3	-0.0737		
101.17	0.197	235.2	-0.0746		
101.20	0.198	235.2	-0.0746		
101.23	0.198	235.3	-0.0754		
101.27	0.192	235.2	-0.0754		
101.30	0.193	235.2	-0.0772		
101.33	0.193	235.2	-0.0772		
101.37	0.192	235.2	-0.0781		
101.40	0.19	235.2	-0.079		
101.43	0.19	235.2	-0.079		
101.47	0.19	235.2	-0.0799		
101.50	0.185	235.2	-0.0799		
101.53	0.184	235.2	-0.0817		
101.57	0.184	235.2	-0.0817		
101.60	0.185	235.2	-0.0817		
101.63	0.183	235.2	-0.0834		
101.67	0.178	235.1	-0.0852		
101.70	0.179	235.1	-0.0852		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
101.73	0.179	235.1	-0.0852			
101.77	0.177	235.1	-0.0852			
101.80	0.177	235.1	-0.0861			
101.83	0.173	235.1	-0.0888			
101.88	0.171	235	-0.0897			
101.92	0.171	235	-0.0897			
101.93	0.17	235	-0.0905			
101.97	0.17	235	-0.0914			
102.00	0.165	235	-0.0932			
102.03	0.165	235	-0.0932			
102.07	0.163	234.9	-0.0932			
102.10	0.163	234.9	-0.095			
102.13	0.163	234.9	-0.095			
102.17	0.161	234.9	-0.0968			
102.20	0.157	234.8	-0.0994			
102.23	0.154	234.8	-0.1003			
102.27	0.154	234.8	-0.1003			
102.30	0.152	234.8	-0.1003			
102.33	0.153	234.8	-0.1021			
102.37	0.153	234.8	-0.103			
102.40	0.148	234.7	-0.1056			
102.43	0.145	234.6	-0.1065			
102.47	0.145	234.6	-0.1074			
102.50	0.144	234.6	-0.1083			
102.53	0.141	234.6	-0.1083			
102.57	0.139	234.6	-0.1101			
102.60	0.139	234.5	-0.111			
102.63	0.14	234.5	-0.1118			
102.67	0.135	234.4	-0.1145			
102.70	0.131	234.4	-0.1163			
102.73	0.132	234.4	-0.1172			
102.77	0.129	234.3	-0.1172			
102.80	0.128	234.3	-0.1189			
102.83	0.128	234.3	-0.1198			
102.87	0.125	234.2	-0.1216			
102.90	0.125	234.2	-0.1225			
102.93	0.119	234.1	-0.126			
102.97	0.12	234.1	-0.1269			
103.00	0.118	234	-0.1269			
103.03	0.115	234	-0.1278			
103.07	0.115	234	-0.1296			
103.10	0.115	233.9	-0.1323			
103.13	0.108	233.8	-0.1349			
103.17	0.109	233.8	-0.1358			
103.20	0.107	233.8	-0.1376			
103.23	0.106	233.7	-0.1376			
103.27	0.103	233.7	-0.1385			
103.30	0.103	233.7	-0.142			
103.35	0.098	233.5	-0.1438			
103.38	0.097	233.5	-0.1456			
103.40	0.097	233.5	-0.1465			
103.43	0.094	233.5	-0.1491			
103.47	0.092	233.4	-0.1509			
103.50	0.09	233.3	-0.1527			
103.53	0.088	233.3	-0.1544			
103.57	0.085	233.2	-0.1544			
103.60	0.084	233.2	-0.1571			
103.63	0.084	233.2	-0.1589			
103.67	0.082	233.1	-0.1607			
103.70	0.078	233	-0.1633			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
103.73	0.077	233	-0.1651		
103.77	0.075	232.9	-0.1678		
103.80	0.071	232.8	-0.1678		
103.83	0.07	232.8	-0.1704		
103.87	0.07	232.7	-0.1722		
103.90	0.068	232.6	-0.1749		
103.93	0.065	232.6	-0.1775		
103.97	0.062	232.5	-0.1784		
104.00	0.061	232.4	-0.1811		
104.03	0.058	232.3	-0.1811		
104.07	0.057	232.3	-0.1837		
104.10	0.057	232.3	-0.1855		
104.13	0.054	232.2	-0.1891		
104.17	0.05	232.1	-0.1917		
104.20	0.049	232	-0.1935		
104.23	0.047	231.9	-0.1971		
104.27	0.044	231.9	-0.1971		
104.30	0.042	231.9	-0.1997		
104.33	0.042	231.8	-0.2015		
104.37	0.04	231.7	-0.205		
104.40	0.037	231.6	-0.2077		
104.43	0.034	231.6	-0.2104		
104.47	0.033	231.5	-0.213		
104.50	0.029	231.4	-0.213		
104.53	0.028	231.4	-0.2157		
104.57	0.028	231.3	-0.2184		
104.60	0.026	231.2	-0.221		
104.63	0.022	231.1	-0.2246		
104.67	0.021	231	-0.2272		
104.70	0.019	230.9	-0.2308		
104.73	0.015	230.8	-0.2308		
104.78	0.015	230.8	-0.2352		
104.82	0.013	230.7	-0.2388		
104.83	0.009	230.6	-0.2388		
104.87	0.007	230.6	-0.2423		
104.90	0.007	230.5	-0.2441		
104.93	0.005	230.4	-0.2477		
104.97	0.002	230.3	-0.2512		
105.00	0.001	230.2	-0.2539		
105.03	-0.002	230.1	-0.2574		
105.07	-0.005	230	-0.2574		
105.10	-0.007	230	-0.2601		
105.13	-0.007	229.9	-0.2627		
105.17	-0.008	229.8	-0.2672		
105.20	-0.013	229.7	-0.2707		
105.23	-0.014	229.6	-0.2734		
105.27	-0.015	229.5	-0.2769		
105.30	-0.02	229.3	-0.2769		
105.33	-0.021	229.3	-0.2805		
105.37	-0.021	229.3	-0.2832		
105.40	-0.023	229.2	-0.2867		
105.43	-0.027	229	-0.2903		
105.47	-0.027	229	-0.2947		
105.50	-0.03	228.8	-0.2982		
105.53	-0.034	228.7	-0.2982		
105.57	-0.035	228.7	-0.3018		
105.60	-0.035	228.6	-0.3053		
105.63	-0.036	228.5	-0.3089		
105.67	-0.041	228.3	-0.3133		
105.70	-0.041	228.2	-0.316		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
105.73	-0.044	228.1	-0.3204		
105.77	-0.048	228	-0.3204		
105.80	-0.049	228	-0.3249		
105.83	-0.049	227.9	-0.3275		
105.87	-0.051	227.8	-0.3311		
105.90	-0.054	227.7	-0.3346		
105.93	-0.056	227.5	-0.3391		
105.97	-0.058	227.4	-0.3426		
106.00	-0.062	227.3	-0.3426		
106.03	-0.062	227.3	-0.3462		
106.07	-0.062	227.2	-0.3497		
106.10	-0.064	227	-0.3542		
106.13	-0.068	226.9	-0.3586		
106.17	-0.07	226.8	-0.3622		
106.20	-0.071	226.7	-0.3657		
106.25	-0.074	226.6	-0.3693		
106.28	-0.075	226.5	-0.3728		
106.30	-0.077	226.3	-0.3772		
106.33	-0.081	226.2	-0.3772		
106.37	-0.082	226.2	-0.3808		
106.40	-0.082	226.1	-0.3852		
106.43	-0.083	226	-0.3888		
106.47	-0.087	225.8	-0.3923		
106.50	-0.087	225.7	-0.3959		
106.53	-0.09	225.6	-0.4003		
106.57	-0.094	225.4	-0.4003		
106.60	-0.095	225.4	-0.4057		
106.63	-0.095	225.3	-0.4083		
106.67	-0.096	225.2	-0.4119		
106.70	-0.099	225.1	-0.4163		
106.73	-0.101	225	-0.4207		
106.77	-0.103	224.8	-0.4252		
106.80	-0.106	224.7	-0.4252		
106.83	-0.107	224.7	-0.4287		
106.87	-0.107	224.6	-0.4332		
106.90	-0.109	224.4	-0.4376		
106.93	-0.112	224.3	-0.442		
106.97	-0.113	224.2	-0.4456		
107.00	-0.116	224	-0.4509		
107.03	-0.118	223.9	-0.4509		
107.07	-0.119	223.9	-0.4545		
107.10	-0.119	223.8	-0.458		
107.13	-0.121	223.6	-0.4625		
107.17	-0.124	223.5	-0.4678		
107.20	-0.126	223.4	-0.4713		
107.23	-0.127	223.2	-0.4758		
107.27	-0.13	223.1	-0.4758		
107.30	-0.13	223.1	-0.4802		
107.33	-0.13	223	-0.4829		
107.37	-0.133	222.9	-0.4882		
107.40	-0.136	222.7	-0.4935		
107.43	-0.136	222.6	-0.4971		
107.47	-0.139	222.5	-0.5006		
107.50	-0.142	222.3	-0.5006		
107.53	-0.142	222.3	-0.506		
107.57	-0.142	222.2	-0.5095		
107.60	-0.143	222.1	-0.5139		
107.63	-0.147	222	-0.5175		
107.68	-0.147	221.8	-0.5219		
107.72	-0.148	221.7	-0.5255		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
107.73	-0.15	221.6	-0.5299		
107.77	-0.152	221.5	-0.5335		
107.80	-0.153	221.3	-0.5379		
107.83	-0.156	221.2	-0.5379		
107.87	-0.157	221.2	-0.5423		
107.90	-0.157	221.1	-0.5468		
107.93	-0.158	221	-0.5503		
107.97	-0.161	220.8	-0.5548		
108.00	-0.162	220.7	-0.5583		
108.03	-0.163	220.6	-0.5619		
108.07	-0.165	220.4	-0.5619		
108.10	-0.166	220.4	-0.5663		
108.13	-0.166	220.3	-0.5699		
108.17	-0.167	220.2	-0.5743		
108.20	-0.17	220	-0.5779		
108.23	-0.171	219.9	-0.5823		
108.27	-0.173	219.8	-0.585		
108.30	-0.174	219.7	-0.585		
108.33	-0.175	219.7	-0.5894		
108.37	-0.175	219.6	-0.5929		
108.40	-0.176	219.4	-0.5965		
108.43	-0.179	219.3	-0.6		
108.47	-0.179	219.2	-0.6036		
108.50	-0.18	219.1	-0.608		
108.53	-0.183	218.9	-0.608		
108.57	-0.183	218.9	-0.6116		
108.60	-0.183	218.8	-0.6151		
108.63	-0.185	218.6	-0.6196		
108.67	-0.186	218.5	-0.6231		
108.70	-0.187	218.4	-0.6258		
108.73	-0.188	218.3	-0.6293		
108.77	-0.19	218.2	-0.6293		
108.80	-0.191	218.2	-0.6329		
108.83	-0.191	218.1	-0.6356		
108.87	-0.191	218	-0.6391		
108.90	-0.193	217.8	-0.6427		
108.93	-0.195	217.7	-0.6462		
108.97	-0.195	217.6	-0.6489		
109.00	-0.196	217.5	-0.6489		
109.03	-0.197	217.5	-0.6515		
109.07	-0.197	217.4	-0.6551		
109.10	-0.198	217.3	-0.6577		
109.15	-0.2	217.2	-0.6613		
109.18	-0.2	217.1	-0.664		
109.20	-0.201	217	-0.6666		
109.23	-0.202	216.9	-0.6702		
109.27	-0.203	216.8	-0.6728		
109.30	-0.203	216.7	-0.6755		
109.33	-0.204	216.6	-0.6755		
109.37	-0.205	216.6	-0.6782		
109.40	-0.205	216.5	-0.6808		
109.43	-0.206	216.4	-0.6835		
109.47	-0.207	216.3	-0.6861		
109.50	-0.208	216.2	-0.6888		
109.53	-0.208	216.1	-0.6915		
109.57	-0.209	216	-0.6915		
109.60	-0.21	216	-0.6941		
109.63	-0.21	215.9	-0.6968		
109.67	-0.211	215.8	-0.6986		
109.70	-0.211	215.7	-0.7012		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
109.73	-0.212	215.6	-0.7039		
109.77	-0.212	215.5	-0.7066		
109.80	-0.213	215.4	-0.7066		
109.83	-0.214	215.4	-0.7083		
109.87	-0.214	215.3	-0.711		
109.90	-0.214	215.3	-0.7128		
109.93	-0.215	215.2	-0.7154		
109.97	-0.215	215.1	-0.7172		
110.00	-0.216	215	-0.7199		
110.03	-0.216	214.9	-0.7199		
110.07	-0.217	214.9	-0.7217		
110.10	-0.217	214.9	-0.7234		
110.13	-0.217	214.8	-0.7252		
110.17	-0.217	214.7	-0.727		
110.20	-0.218	214.7	-0.7296		
110.23	-0.218	214.6	-0.7314		
110.27	-0.219	214.5	-0.7314		
110.30	-0.219	214.5	-0.7332		
110.33	-0.219	214.5	-0.735		
110.37	-0.219	214.4	-0.7367		
110.40	-0.219	214.4	-0.7376		
110.43	-0.219	214.3	-0.7394		
110.47	-0.22	214.2	-0.7412		
110.50	-0.219	214.2	-0.7412		
110.53	-0.22	214.2	-0.7421		
110.58	-0.22	214.1	-0.7456		
110.62	-0.22	214	-0.7456		
110.63	-0.22	214	-0.7474		
110.67	-0.22	214	-0.7483		
110.70	-0.22	213.9	-0.7501		
110.73	-0.22	213.9	-0.7509		
110.77	-0.22	213.8	-0.7518		
110.80	-0.22	213.8	-0.7527		
110.83	-0.22	213.7	-0.7527		
110.87	-0.22	213.7	-0.7536		
110.90	-0.22	213.7	-0.7545		
110.93	-0.22	213.7	-0.7554		
110.97	-0.22	213.6	-0.7563		
111.00	-0.22	213.6	-0.7572		
111.03	-0.22	213.6	-0.758		
111.07	-0.219	213.5	-0.758		
111.10	-0.218	213.5	-0.758		
111.13	-0.218	213.5	-0.7589		
111.17	-0.219	213.5	-0.7598		
111.20	-0.219	213.4	-0.7607		
111.23	-0.218	213.4	-0.7607		
111.27	-0.218	213.4	-0.7607		
111.30	-0.217	213.4	-0.7607		
111.33	-0.217	213.4	-0.7616		
111.37	-0.217	213.4	-0.7616		
111.40	-0.217	213.3	-0.7616		
111.43	-0.216	213.3	-0.7616		
111.47	-0.216	213.3	-0.7625		
111.50	-0.216	213.3	-0.7625		
111.53	-0.215	213.3	-0.7625		
111.57	-0.214	213.3	-0.7625		
111.60	-0.214	213.3	-0.7625		
111.63	-0.214	213.3	-0.7625		
111.67	-0.213	213.3	-0.7625		
111.70	-0.213	213.3	-0.7625		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
111.73	-0.212	213.2	-0.7625		
111.77	-0.211	213.3	-0.7625		
111.80	-0.211	213.3	-0.7616		
111.83	-0.211	213.2	-0.7625		
111.87	-0.21	213.2	-0.7616		
111.90	-0.209	213.2	-0.7616		
111.93	-0.209	213.2	-0.7616		
111.97	-0.208	213.3	-0.7607		
112.00	-0.207	213.3	-0.7607		
112.05	-0.206	213.3	-0.7607		
112.08	-0.206	213.3	-0.7607		
112.10	-0.205	213.3	-0.7607		
112.13	-0.204	213.3	-0.7598		
112.17	-0.204	213.3	-0.7598		
112.20	-0.204	213.3	-0.7598		
112.23	-0.202	213.3	-0.7589		
112.27	-0.202	213.3	-0.7589		
112.30	-0.201	213.4	-0.758		
112.33	-0.199	213.4	-0.758		
112.37	-0.199	213.4	-0.7572		
112.40	-0.199	213.4	-0.7572		
112.43	-0.198	213.4	-0.7563		
112.47	-0.196	213.4	-0.7563		
112.50	-0.195	213.5	-0.7554		
112.53	-0.195	213.5	-0.7554		
112.57	-0.193	213.5	-0.7554		
112.60	-0.192	213.5	-0.7545		
112.63	-0.192	213.5	-0.7536		
112.67	-0.191	213.5	-0.7536		
112.70	-0.189	213.6	-0.7527		
112.73	-0.189	213.6	-0.7518		
112.77	-0.188	213.7	-0.7509		
112.80	-0.185	213.7	-0.7509		
112.83	-0.185	213.7	-0.7501		
112.87	-0.185	213.7	-0.7501		
112.90	-0.184	213.8	-0.7492		
112.93	-0.182	213.8	-0.7474		
112.97	-0.181	213.8	-0.7474		
113.00	-0.18	213.9	-0.7456		
113.03	-0.178	213.9	-0.7456		
113.07	-0.176	213.9	-0.7447		
113.10	-0.176	214	-0.7438		
113.13	-0.176	214	-0.743		
113.17	-0.174	214.1	-0.7412		
113.20	-0.172	214.1	-0.7412		
113.23	-0.172	214.2	-0.7403		
113.27	-0.169	214.2	-0.7403		
113.30	-0.168	214.2	-0.7385		
113.33	-0.168	214.3	-0.7376		
113.37	-0.167	214.3	-0.7367		
113.40	-0.165	214.4	-0.7359		
113.43	-0.163	214.4	-0.735		
113.47	-0.163	214.5	-0.7332		
113.52	-0.161	214.5	-0.7332		
113.55	-0.159	214.5	-0.7323		
113.57	-0.159	214.6	-0.7305		
113.60	-0.156	214.7	-0.7305		
113.63	-0.154	214.7	-0.7288		
113.67	-0.154	214.7	-0.7279		
113.70	-0.153	214.8	-0.727		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
113.73	-0.151	214.9	-0.7252		
113.77	-0.149	214.9	-0.7243		
113.80	-0.148	215	-0.7225		
113.83	-0.146	215.1	-0.7225		
113.87	-0.144	215.1	-0.7217		
113.90	-0.144	215.1	-0.7199		
113.93	-0.143	215.2	-0.7181		
113.97	-0.14	215.3	-0.7163		
114.00	-0.138	215.4	-0.7154		
114.03	-0.138	215.4	-0.7146		
114.07	-0.135	215.5	-0.7146		
114.10	-0.133	215.5	-0.7128		
114.13	-0.133	215.6	-0.711		
114.17	-0.132	215.7	-0.7101		
114.20	-0.129	215.8	-0.7083		
114.23	-0.128	215.8	-0.7066		
114.27	-0.126	215.9	-0.7048		
114.30	-0.124	216	-0.7048		
114.33	-0.12	216	-0.703		
114.37	-0.12	216.1	-0.7012		
114.40	-0.121	216.2	-0.6995		
114.43	-0.117	216.3	-0.6968		
114.47	-0.116	216.4	-0.6959		
114.50	-0.114	216.5	-0.6932		
114.53	-0.111	216.6	-0.6932		
114.57	-0.11	216.6	-0.6915		
114.60	-0.11	216.7	-0.6897		
114.63	-0.109	216.7	-0.6879		
114.67	-0.104	216.9	-0.6861		
114.70	-0.104	216.9	-0.6844		
114.73	-0.103	217	-0.6817		
114.77	-0.099	217.1	-0.6817		
114.80	-0.097	217.1	-0.6799		
114.83	-0.097	217.2	-0.6773		
114.87	-0.096	217.3	-0.6764		
114.90	-0.092	217.4	-0.6737		
114.95	-0.091	217.5	-0.6719		
114.98	-0.091	217.6	-0.6702		
115.00	-0.088	217.7	-0.6684		
115.03	-0.086	217.8	-0.6657		
115.07	-0.083	217.9	-0.664		
115.10	-0.081	218	-0.664		
115.13	-0.079	218	-0.6613		
115.17	-0.079	218.1	-0.6595		
115.20	-0.077	218.2	-0.6569		
115.23	-0.074	218.3	-0.6542		
115.27	-0.072	218.4	-0.6515		
115.30	-0.07	218.6	-0.6489		
115.33	-0.067	218.7	-0.6489		
115.37	-0.066	218.7	-0.6462		
115.40	-0.066	218.8	-0.6444		
115.43	-0.064	218.9	-0.6427		
115.47	-0.062	219	-0.6391		
115.50	-0.059	219.2	-0.6373		
115.53	-0.057	219.2	-0.6347		
115.57	-0.054	219.4	-0.6347		
115.60	-0.052	219.4	-0.632		
115.63	-0.052	219.5	-0.6302		
115.67	-0.05	219.6	-0.6267		
115.70	-0.047	219.7	-0.624		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
115.73	-0.046	219.8	-0.6222		
115.77	-0.043	220	-0.6187		
115.80	-0.04	220.1	-0.6187		
115.83	-0.038	220.1	-0.6151		
115.87	-0.038	220.2	-0.6134		
115.90	-0.036	220.3	-0.6107		
115.93	-0.033	220.5	-0.6071		
115.97	-0.032	220.6	-0.6045		
116.00	-0.03	220.7	-0.6009		
116.03	-0.026	220.9	-0.6009		
116.07	-0.024	220.9	-0.5974		
116.10	-0.024	221	-0.5956		
116.13	-0.022	221.1	-0.5921		
116.17	-0.019	221.2	-0.5894		
116.20	-0.017	221.3	-0.5867		
116.23	-0.015	221.5	-0.5832		
116.27	-0.012	221.6	-0.5832		
116.30	-0.009	221.6	-0.5796		
116.33	-0.009	221.7	-0.577		
116.37	-0.008	221.8	-0.5743		
116.42	-0.005	222	-0.5708		
116.45	-0.005	222.1	-0.569		
116.47	-0.002	222.2	-0.5645		
116.50	0.001	222.4	-0.561		
116.53	0.003	222.5	-0.5583		
116.57	0.005	222.6	-0.5548		
116.60	0.008	222.7	-0.5548		
116.63	0.01	222.7	-0.5512		
116.67	0.01	222.8	-0.5486		
116.70	0.012	223	-0.545		
116.73	0.015	223.1	-0.5415		
116.77	0.018	223.2	-0.5388		
116.80	0.019	223.3	-0.5352		
116.83	0.023	223.5	-0.5352		
116.87	0.024	223.5	-0.5308		
116.90	0.024	223.6	-0.529		
116.93	0.026	223.7	-0.5246		
116.97	0.029	223.9	-0.521		
117.00	0.032	224	-0.5166		
117.03	0.032	224.1	-0.5131		
117.07	0.036	224.3	-0.5131		
117.10	0.039	224.3	-0.5086		
117.13	0.039	224.4	-0.5051		
117.17	0.04	224.5	-0.5024		
117.20	0.044	224.7	-0.498		
117.23	0.045	224.8	-0.4953		
117.27	0.047	224.9	-0.4909		
117.30	0.051	225.1	-0.4909		
117.33	0.052	225.1	-0.4864		
117.37	0.052	225.2	-0.4838		
117.40	0.054	225.3	-0.4793		
117.43	0.058	225.5	-0.4749		
117.47	0.06	225.6	-0.4722		
117.50	0.061	225.7	-0.4687		
117.53	0.064	225.9	-0.4687		
117.57	0.067	225.9	-0.4642		
117.60	0.067	226	-0.4607		
117.63	0.068	226.1	-0.4562		
117.67	0.071	226.3	-0.4527		
117.70	0.073	226.4	-0.4483		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
117.73	0.074	226.5	-0.4447			
117.77	0.078	226.7	-0.4447			
117.80	0.08	226.7	-0.4403			
117.85	0.081	226.9	-0.4332			
117.88	0.084	227	-0.4332			
117.90	0.085	227	-0.4296			
117.93	0.085	227.2	-0.4261			
117.97	0.087	227.3	-0.4216			
118.00	0.091	227.5	-0.4181			
118.03	0.092	227.6	-0.4136			
118.07	0.094	227.7	-0.4101			
118.10	0.097	227.9	-0.4101			
118.13	0.099	227.9	-0.4057			
118.17	0.099	228	-0.403			
118.20	0.101	228.1	-0.3986			
118.23	0.103	228.2	-0.395			
118.27	0.106	228.4	-0.3906			
118.30	0.107	228.5	-0.387			
118.33	0.11	228.7	-0.387			
118.37	0.112	228.7	-0.3826			
118.40	0.112	228.8	-0.3781			
118.43	0.112	228.9	-0.3755			
118.47	0.116	229.1	-0.3701			
118.50	0.118	229.2	-0.3657			
118.53	0.12	229.3	-0.3613			
118.57	0.123	229.4	-0.3613			
118.60	0.124	229.4	-0.3568			
118.63	0.124	229.6	-0.3542			
118.67	0.124	229.7	-0.3497			
118.70	0.129	229.8	-0.3453			
118.73	0.13	229.9	-0.3409			
118.77	0.132	230.1	-0.3373			
118.80	0.134	230.2	-0.3373			
118.83	0.139	230.2	-0.3329			
118.87	0.139	230.3	-0.3275			
118.90	0.136	230.4	-0.3267			
118.93	0.139	230.5	-0.3222			
118.97	0.142	230.7	-0.3178			
119.00	0.143	230.8	-0.3142			
119.03	0.146	230.9	-0.3142			
119.07	0.147	230.9	-0.3098			
119.10	0.147	231	-0.3053			
119.13	0.149	231.2	-0.3009			
119.17	0.152	231.3	-0.2965			
119.20	0.153	231.4	-0.2929			
119.23	0.154	231.5	-0.2885			
119.27	0.159	231.7	-0.2885			
119.32	0.157	231.7	-0.2814			
119.35	0.159	231.8	-0.2769			
119.37	0.161	231.9	-0.2769			
119.40	0.166	231.9	-0.2734			
119.43	0.166	232.1	-0.2681			
119.47	0.162	232.1	-0.2672			
119.50	0.165	232.3	-0.2636			
119.53	0.168	232.4	-0.2592			
119.57	0.169	232.5	-0.2556			
119.60	0.171	232.6	-0.2556			
119.63	0.173	232.6	-0.2521			
119.67	0.173	232.7	-0.2485			
119.70	0.174	232.9	-0.2441			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
119.73	0.177	233	-0.2406		
119.77	0.178	233.1	-0.237		
119.80	0.18	233.2	-0.2326		
119.83	0.181	233.3	-0.2326		
119.87	0.182	233.3	-0.2299		
119.90	0.182	233.4	-0.2263		
119.93	0.184	233.5	-0.2228		
119.97	0.186	233.7	-0.2192		
120.00	0.187	233.7	-0.2157		
120.03	0.188	233.9	-0.2121		
120.07	0.19	234	-0.2121		
120.10	0.191	234	-0.2086		
120.13	0.191	234.1	-0.2059		
120.17	0.192	234.2	-0.2024		
120.20	0.194	234.3	-0.1988		
120.23	0.195	234.4	-0.1953		
120.27	0.196	234.5	-0.1926		
120.30	0.198	234.6	-0.1926		
120.33	0.199	234.6	-0.1891		
120.37	0.199	234.7	-0.1864		
120.40	0.2	234.8	-0.1837		
120.43	0.201	234.9	-0.1802		
120.47	0.203	235	-0.1784		
120.50	0.204	235.1	-0.1749		
120.53	0.205	235.2	-0.1749		
120.57	0.206	235.2	-0.1722		
120.60	0.206	235.3	-0.1695		
120.63	0.21	235.4	-0.1651		
120.67	0.207	235.4	-0.1642		
120.70	0.209	235.6	-0.1607		
120.73	0.21	235.6	-0.1589		
120.78	0.211	235.7	-0.1562		
120.80	0.212	235.8	-0.1536		
120.83	0.212	235.9	-0.15		
120.87	0.215	236	-0.15		
120.90	0.215	236	-0.1482		
120.93	0.215	236.1	-0.1456		
120.97	0.216	236.2	-0.1438		
121.00	0.219	236.3	-0.1394		
121.03	0.218	236.4	-0.1385		
121.07	0.216	236.4	-0.1376		
121.10	0.219	236.5	-0.1376		
121.13	0.22	236.5	-0.1349		
121.17	0.22	236.6	-0.1314		
121.20	0.221	236.7	-0.1296		
121.23	0.222	236.7	-0.1278		
121.27	0.223	236.8	-0.1252		
121.30	0.225	236.9	-0.1225		
121.33	0.223	237	-0.1225		
121.37	0.226	237	-0.1216		
121.40	0.226	237.1	-0.1189		
121.43	0.224	237.1	-0.1189		
121.47	0.227	237.3	-0.1154		
121.50	0.227	237.3	-0.1136		
121.53	0.226	237.4	-0.1136		
121.57	0.227	237.4	-0.1136		
121.60	0.23	237.4	-0.1101		
121.63	0.23	237.5	-0.1083		
121.67	0.229	237.6	-0.1074		
121.70	0.228	237.7	-0.1056		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
121.73	0.229	237.7	-0.1047			
121.77	0.228	237.8	-0.1039			
121.80	0.231	237.9	-0.1039			
121.83	0.23	237.9	-0.1012			
121.87	0.23	237.9	-0.1012			
121.90	0.233	238	-0.0976			
121.93	0.233	238.1	-0.0968			
121.97	0.23	238.1	-0.0968			
122.00	0.233	238.2	-0.095			
122.03	0.232	238.2	-0.095			
122.07	0.234	238.2	-0.0941			
122.10	0.234	238.3	-0.0923			
122.13	0.233	238.4	-0.0914			
122.17	0.232	238.4	-0.0914			
122.22	0.231	238.4	-0.0905			
122.25	0.235	238.5	-0.0888			
122.27	0.233	238.6	-0.0888			
122.30	0.232	238.6	-0.0879			
122.33	0.235	238.7	-0.0852			
122.37	0.235	238.7	-0.0852			
122.40	0.234	238.7	-0.0852			
122.43	0.234	238.8	-0.0852			
122.47	0.231	238.8	-0.0852			
122.50	0.234	238.9	-0.0834			
122.53	0.233	238.9	-0.0834			
122.57	0.235	239	-0.0826			
122.60	0.232	239	-0.0826			
122.63	0.234	239	-0.0826			
122.67	0.234	239.1	-0.0817			
122.70	0.232	239.1	-0.0808			
122.73	0.233	239.1	-0.0808			
122.77	0.233	239.2	-0.0808			
122.80	0.232	239.2	-0.0799			
122.83	0.231	239.2	-0.0799			
122.87	0.23	239.2	-0.0808			
122.90	0.23	239.3	-0.0808			
122.93	0.231	239.3	-0.0799			
122.97	0.231	239.4	-0.0781			
123.00	0.233	239.4	-0.0781			
123.03	0.23	239.4	-0.079			
123.07	0.231	239.5	-0.079			
123.10	0.228	239.5	-0.079			
123.13	0.228	239.5	-0.079			
123.17	0.23	239.5	-0.0781			
123.20	0.23	239.6	-0.0781			
123.23	0.229	239.6	-0.0781			
123.27	0.227	239.6	-0.0799			
123.30	0.225	239.6	-0.0799			
123.33	0.227	239.6	-0.0799			
123.37	0.227	239.7	-0.079			
123.40	0.226	239.7	-0.079			
123.43	0.223	239.7	-0.0799			
123.47	0.223	239.7	-0.0799			
123.50	0.225	239.8	-0.079			
123.53	0.223	239.8	-0.079			
123.57	0.224	239.8	-0.0799			
123.60	0.224	239.8	-0.079			
123.63	0.22	239.8	-0.0808			
123.68	0.219	239.8	-0.0799			
123.72	0.219	239.8	-0.0808			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
123.73	0.22	239.9	-0.0799			
123.77	0.218	239.9	-0.0808			
123.80	0.219	239.9	-0.0808			
123.83	0.216	239.9	-0.0817			
123.87	0.217	239.9	-0.0817			
123.90	0.213	239.9	-0.0817			
123.93	0.213	239.9	-0.0826			
123.97	0.213	239.9	-0.0826			
124.00	0.214	240	-0.0826			
124.03	0.213	240	-0.0834			
124.07	0.21	240	-0.0843			
124.10	0.211	240	-0.0843			
124.13	0.21	240	-0.0834			
124.17	0.21	240	-0.0852			
124.20	0.206	240	-0.0861			
124.23	0.205	240	-0.087			
124.27	0.207	240	-0.0861			
124.30	0.204	240	-0.0879			
124.33	0.203	240	-0.0879			
124.37	0.203	240	-0.0879			
124.40	0.203	240	-0.0879			
124.43	0.201	240	-0.0888			
124.47	0.197	240	-0.0905			
124.50	0.197	240	-0.0905			
124.53	0.199	240	-0.0905			
124.57	0.195	240	-0.0905			
124.60	0.194	240	-0.0923			
124.63	0.194	240	-0.0923			
124.67	0.196	240	-0.0914			
124.70	0.192	240	-0.0932			
124.73	0.188	239.9	-0.095			
124.77	0.189	240	-0.0941			
124.80	0.19	240	-0.0941			
124.83	0.186	240	-0.0941			
124.87	0.186	239.9	-0.0959			
124.90	0.183	239.9	-0.0976			
124.93	0.183	239.9	-0.0985			
124.97	0.184	239.9	-0.0985			
125.00	0.181	239.9	-0.1003			
125.03	0.176	239.8	-0.1003			
125.07	0.179	239.8	-0.1021			
125.12	0.175	239.8	-0.103			
125.15	0.173	239.8	-0.103			
125.17	0.174	239.8	-0.1039			
125.20	0.174	239.8	-0.1039			
125.23	0.17	239.8	-0.1065			
125.27	0.168	239.7	-0.1065			
125.30	0.17	239.8	-0.1065			
125.33	0.167	239.7	-0.1083			
125.37	0.165	239.7	-0.1083			
125.40	0.162	239.7	-0.1101			
125.43	0.162	239.7	-0.111			
125.47	0.161	239.6	-0.1118			
125.50	0.159	239.6	-0.1136			
125.53	0.156	239.5	-0.1154			
125.57	0.155	239.5	-0.1154			
125.60	0.156	239.5	-0.1154			
125.63	0.15	239.5	-0.1163			
125.67	0.15	239.5	-0.1189			
125.70	0.15	239.4	-0.1189			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
125.73	0.15	239.4	-0.1198			
125.77	0.148	239.4	-0.1207			
125.80	0.146	239.4	-0.1225			
125.83	0.14	239.3	-0.1225			
125.87	0.141	239.3	-0.126			
125.90	0.141	239.3	-0.126			
125.93	0.14	239.2	-0.1269			
125.97	0.138	239.2	-0.1287			
126.00	0.133	239.1	-0.1314			
126.03	0.134	239.1	-0.1323			
126.07	0.132	239.1	-0.1323			
126.10	0.13	239	-0.1331			
126.13	0.13	239	-0.134			
126.17	0.128	239	-0.1376			
126.20	0.122	238.9	-0.1394			
126.23	0.122	238.9	-0.1402			
126.27	0.123	238.9	-0.1411			
126.30	0.118	238.8	-0.1411			
126.33	0.117	238.7	-0.1438			
126.37	0.117	238.7	-0.1447			
126.40	0.116	238.7	-0.1465			
126.43	0.112	238.6	-0.1491			
126.47	0.11	238.6	-0.1509			
126.50	0.109	238.5	-0.1518			
126.53	0.106	238.4	-0.1518			
126.58	0.105	238.4	-0.1553			
126.62	0.104	238.4	-0.1571			
126.63	0.1	238.3	-0.1571			
126.67	0.098	238.2	-0.1598			
126.70	0.098	238.2	-0.1616			
126.73	0.097	238.2	-0.1633			
126.77	0.094	238.1	-0.1651			
126.80	0.091	238	-0.1678			
126.83	0.091	238	-0.1695			
126.87	0.087	237.9	-0.1695			
126.90	0.085	237.9	-0.1722			
126.93	0.085	237.9	-0.174			
126.97	0.084	237.8	-0.1758			
127.00	0.081	237.7	-0.1784			
127.03	0.078	237.6	-0.1802			
127.07	0.077	237.6	-0.182			
127.10	0.074	237.5	-0.182			
127.13	0.071	237.4	-0.1846			
127.17	0.071	237.4	-0.1864			
127.20	0.071	237.4	-0.1891			
127.23	0.067	237.3	-0.1917			
127.27	0.065	237.2	-0.1944			
127.30	0.063	237.1	-0.1962			
127.33	0.06	237	-0.1962			
127.37	0.058	237	-0.1988			
127.40	0.058	237	-0.2015			
127.43	0.056	236.9	-0.2042			
127.47	0.053	236.8	-0.2068			
127.50	0.051	236.7	-0.2095			
127.53	0.049	236.6	-0.2113			
127.57	0.046	236.5	-0.2113			
127.60	0.044	236.4	-0.2148			
127.63	0.044	236.4	-0.2175			
127.67	0.042	236.4	-0.2201			
127.70	0.038	236.3	-0.2237			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
127.73	0.036	236.2	-0.2255			
127.77	0.035	236.1	-0.2281			
127.80	0.032	236	-0.2281			
127.83	0.029	235.9	-0.2317			
127.87	0.029	235.9	-0.2343			
127.90	0.027	235.8	-0.237			
127.93	0.025	235.7	-0.2397			
127.97	0.022	235.6	-0.2432			
128.02	0.022	235.5	-0.2459			
128.05	0.019	235.4	-0.2477			
128.07	0.016	235.3	-0.2512			
128.10	0.015	235.3	-0.2539			
128.13	0.011	235.1	-0.2539			
128.17	0.009	235	-0.2574			
128.20	0.009	235	-0.261			
128.23	0.008	235	-0.2636			
128.27	0.004	234.8	-0.2672			
128.30	0.003	234.8	-0.2707			
128.33	0	234.6	-0.2743			
128.37	-0.003	234.5	-0.2743			
128.40	-0.005	234.4	-0.2769			
128.43	-0.005	234.4	-0.2796			
128.47	-0.007	234.3	-0.2832			
128.50	-0.01	234.2	-0.2876			
128.53	-0.013	234.1	-0.2903			
128.57	-0.014	234	-0.2947			
128.60	-0.017	233.9	-0.2947			
128.63	-0.02	233.8	-0.2982			
128.67	-0.02	233.8	-0.3018			
128.70	-0.021	233.7	-0.3045			
128.73	-0.024	233.6	-0.3089			
128.77	-0.027	233.4	-0.3116			
128.80	-0.028	233.3	-0.3151			
128.83	-0.031	233.2	-0.3151			
128.87	-0.032	233.1	-0.3187			
128.90	-0.032	233.1	-0.3222			
128.93	-0.035	233	-0.3275			
128.97	-0.039	232.8	-0.332			
129.00	-0.041	232.7	-0.3346			
129.03	-0.042	232.6	-0.3382			
129.07	-0.045	232.5	-0.3382			
129.10	-0.048	232.4	-0.3426			
129.13	-0.048	232.4	-0.3462			
129.17	-0.048	232.3	-0.3488			
129.20	-0.052	232.1	-0.3533			
129.23	-0.054	232	-0.3568			
129.27	-0.056	231.9	-0.3613			
129.30	-0.059	231.8	-0.3613			
129.33	-0.061	231.7	-0.3657			
129.37	-0.061	231.7	-0.3693			
129.40	-0.062	231.6	-0.3728			
129.43	-0.065	231.4	-0.3772			
129.48	-0.068	231.3	-0.3808			
129.52	-0.068	231.2	-0.3843			
129.53	-0.072	231	-0.3888			
129.57	-0.074	230.9	-0.3923			
129.60	-0.076	230.8	-0.3968			
129.63	-0.078	230.7	-0.3968			
129.67	-0.081	230.6	-0.4003			
129.70	-0.081	230.6	-0.4048			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
129.73	-0.081	230.5	-0.4074			
129.77	-0.084	230.3	-0.4119			
129.80	-0.086	230.2	-0.4154			
129.83	-0.089	230	-0.4207			
129.87	-0.092	229.9	-0.4207			
129.90	-0.093	229.8	-0.4261			
129.93	-0.093	229.8	-0.4287			
129.97	-0.095	229.7	-0.4341			
130.00	-0.097	229.5	-0.4376			
130.03	-0.1	229.4	-0.4429			
130.07	-0.101	229.3	-0.4465			
130.10	-0.104	229.1	-0.4465			
130.13	-0.106	229	-0.4509			
130.17	-0.106	229	-0.4554			
130.20	-0.107	228.9	-0.4598			
130.23	-0.11	228.7	-0.4642			
130.27	-0.113	228.5	-0.4678			
130.30	-0.113	228.4	-0.4713			
130.33	-0.115	228.3	-0.4713			
130.37	-0.118	228.1	-0.4767			
130.40	-0.118	228.1	-0.4811			
130.43	-0.119	228	-0.4855			
130.47	-0.122	227.9	-0.49			
130.50	-0.124	227.7	-0.4944			
130.53	-0.125	227.6	-0.4989			
130.57	-0.128	227.5	-0.4989			
130.60	-0.13	227.3	-0.5042			
130.63	-0.13	227.3	-0.5077			
130.67	-0.131	227.2	-0.5122			
130.70	-0.134	227	-0.5175			
130.73	-0.135	226.9	-0.5219			
130.77	-0.136	226.8	-0.5264			
130.80	-0.139	226.6	-0.5264			
130.83	-0.141	226.5	-0.5308			
130.87	-0.141	226.5	-0.5352			
130.90	-0.141	226.4	-0.5397			
130.95	-0.145	226.1	-0.5432			
130.98	-0.145	226.1	-0.5468			
131.00	-0.146	226	-0.5512			
131.03	-0.149	225.8	-0.5557			
131.07	-0.15	225.7	-0.5592			
131.10	-0.152	225.6	-0.5637			
131.13	-0.154	225.4	-0.5637			
131.17	-0.156	225.3	-0.5681			
131.20	-0.156	225.3	-0.5716			
131.23	-0.157	225.2	-0.5761			
131.27	-0.159	225	-0.5805			
131.30	-0.161	224.9	-0.5841			
131.33	-0.161	224.8	-0.5876			
131.37	-0.163	224.6	-0.5876			
131.40	-0.164	224.5	-0.5929			
131.43	-0.164	224.5	-0.5956			
131.47	-0.167	224.3	-0.6009			
131.50	-0.169	224.2	-0.6054			
131.53	-0.17	224.1	-0.6098			
131.57	-0.171	224	-0.6125			
131.60	-0.172	223.8	-0.6125			
131.63	-0.174	223.7	-0.616			
131.67	-0.174	223.7	-0.6205			
131.70	-0.175	223.6	-0.624			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
131.73	-0.177	223.4	-0.6284		
131.77	-0.178	223.3	-0.632		
131.80	-0.179	223.2	-0.6347		
131.83	-0.181	223.1	-0.6347		
131.87	-0.183	223	-0.6391		
131.90	-0.183	223	-0.6427		
131.93	-0.183	222.8	-0.6462		
131.97	-0.184	222.7	-0.6498		
132.00	-0.186	222.6	-0.6533		
132.03	-0.187	222.5	-0.6569		
132.07	-0.189	222.3	-0.6569		
132.10	-0.19	222.2	-0.6604		
132.13	-0.19	222.2	-0.664		
132.17	-0.191	222.1	-0.6675		
132.20	-0.192	222	-0.6711		
132.23	-0.193	221.9	-0.6737		
132.27	-0.194	221.8	-0.6764		
132.30	-0.195	221.6	-0.6764		
132.33	-0.197	221.5	-0.6808		
132.38	-0.197	221.4	-0.6861		
132.42	-0.198	221.3	-0.6861		
132.43	-0.199	221.2	-0.6897		
132.47	-0.199	221.2	-0.6924		
132.50	-0.2	221.1	-0.695		
132.53	-0.201	221	-0.6977		
132.57	-0.202	220.9	-0.7012		
132.60	-0.203	220.8	-0.7039		
132.63	-0.204	220.7	-0.7039		
132.67	-0.205	220.6	-0.7066		
132.70	-0.205	220.6	-0.7101		
132.73	-0.205	220.5	-0.7119		
132.77	-0.206	220.4	-0.7154		
132.80	-0.208	220.2	-0.7172		
132.83	-0.207	220.1	-0.7199		
132.87	-0.208	220	-0.7199		
132.90	-0.21	219.9	-0.7225		
132.93	-0.21	219.9	-0.7252		
132.97	-0.21	219.8	-0.7279		
133.00	-0.211	219.7	-0.7296		
133.03	-0.211	219.7	-0.7323		
133.07	-0.212	219.6	-0.7341		
133.10	-0.212	219.5	-0.7341		
133.13	-0.213	219.4	-0.7367		
133.17	-0.213	219.4	-0.7385		
133.20	-0.214	219.3	-0.7412		
133.23	-0.215	219.2	-0.7438		
133.27	-0.215	219.1	-0.7456		
133.30	-0.215	219	-0.7483		
133.33	-0.216	219	-0.7483		
133.37	-0.216	218.9	-0.7509		
133.40	-0.216	218.9	-0.7518		
133.43	-0.216	218.8	-0.7545		
133.47	-0.217	218.7	-0.7563		
133.50	-0.217	218.6	-0.758		
133.53	-0.218	218.6	-0.7598		
133.57	-0.218	218.5	-0.7598		
133.60	-0.218	218.4	-0.7616		
133.63	-0.218	218.4	-0.7634		
133.67	-0.219	218.3	-0.7643		
133.70	-0.219	218.3	-0.766		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
133.73	-0.219	218.2	-0.7678		
133.77	-0.219	218.1	-0.7696		
133.80	-0.22	218.1	-0.7696		
133.85	-0.22	218	-0.7722		
133.88	-0.22	218	-0.7731		
133.90	-0.22	217.9	-0.7731		
133.93	-0.22	217.9	-0.774		
133.97	-0.22	217.9	-0.7758		
134.00	-0.22	217.8	-0.7776		
134.03	-0.22	217.8	-0.7785		
134.07	-0.22	217.7	-0.7793		
134.10	-0.22	217.7	-0.7793		
134.13	-0.22	217.6	-0.7793		
134.17	-0.22	217.6	-0.7802		
134.20	-0.22	217.6	-0.782		
134.23	-0.22	217.5	-0.7829		
134.27	-0.22	217.5	-0.7838		
134.30	-0.22	217.4	-0.7838		
134.33	-0.219	217.4	-0.7847		
134.37	-0.219	217.4	-0.7847		
134.40	-0.219	217.4	-0.7856		
134.43	-0.219	217.4	-0.7856		
134.47	-0.219	217.3	-0.7864		
134.50	-0.219	217.3	-0.7873		
134.53	-0.218	217.3	-0.7873		
134.57	-0.218	217.2	-0.7873		
134.60	-0.217	217.2	-0.7873		
134.63	-0.217	217.2	-0.7882		
134.67	-0.217	217.2	-0.7882		
134.70	-0.217	217.2	-0.7891		
134.73	-0.216	217.2	-0.7891		
134.77	-0.216	217.1	-0.7891		
134.80	-0.216	217.1	-0.7891		
134.83	-0.216	217.1	-0.7891		
134.87	-0.215	217.1	-0.7891		
134.90	-0.215	217.1	-0.7891		
134.93	-0.214	217.1	-0.7891		
134.97	-0.214	217.1	-0.79		
135.00	-0.213	217.1	-0.7891		
135.03	-0.212	217.1	-0.7891		
135.07	-0.212	217.1	-0.7891		
135.10	-0.211	217.1	-0.7891		
135.13	-0.211	217.1	-0.7891		
135.17	-0.21	217.1	-0.7882		
135.20	-0.21	217.1	-0.7882		
135.23	-0.209	217.1	-0.7882		
135.28	-0.208	217.1	-0.7882		
135.32	-0.208	217	-0.7882		
135.33	-0.208	217	-0.7882		
135.37	-0.207	217.1	-0.7873		
135.40	-0.205	217.1	-0.7873		
135.43	-0.205	217.1	-0.7864		
135.47	-0.205	217.1	-0.7864		
135.50	-0.204	217.1	-0.7864		
135.53	-0.203	217.1	-0.7864		
135.57	-0.202	217.1	-0.7856		
135.60	-0.201	217.1	-0.7856		
135.63	-0.2	217.2	-0.7847		
135.67	-0.199	217.2	-0.7847		
135.70	-0.199	217.2	-0.7847		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
135.73	-0.198	217.2	-0.7838		
135.77	-0.197	217.2	-0.7829		
135.80	-0.196	217.2	-0.7829		
135.83	-0.195	217.2	-0.782		
135.87	-0.194	217.3	-0.7811		
135.90	-0.193	217.3	-0.7811		
135.93	-0.193	217.3	-0.7811		
135.97	-0.192	217.3	-0.7802		
136.00	-0.191	217.4	-0.7793		
136.03	-0.189	217.4	-0.7785		
136.07	-0.188	217.4	-0.7785		
136.10	-0.187	217.5	-0.7776		
136.13	-0.186	217.5	-0.7776		
136.17	-0.186	217.5	-0.7767		
136.20	-0.185	217.5	-0.7758		
136.23	-0.184	217.6	-0.7749		
136.27	-0.182	217.6	-0.774		
136.30	-0.181	217.6	-0.774		
136.33	-0.18	217.7	-0.7731		
136.37	-0.178	217.7	-0.7731		
136.40	-0.178	217.7	-0.7714		
136.43	-0.177	217.8	-0.7714		
136.47	-0.175	217.8	-0.7696		
136.50	-0.174	217.9	-0.7687		
136.53	-0.173	217.9	-0.7678		
136.57	-0.171	218	-0.7669		
136.60	-0.169	218	-0.7669		
136.63	-0.169	218	-0.766		
136.67	-0.168	218.1	-0.7651		
136.70	-0.166	218.1	-0.7643		
136.75	-0.165	218.2	-0.7625		
136.78	-0.164	218.2	-0.7625		
136.80	-0.162	218.3	-0.7607		
136.83	-0.161	218.3	-0.7598		
136.87	-0.159	218.4	-0.7589		
136.90	-0.157	218.5	-0.7572		
136.93	-0.155	218.5	-0.7572		
136.97	-0.155	218.5	-0.7563		
137.00	-0.155	218.6	-0.7554		
137.03	-0.153	218.7	-0.7536		
137.07	-0.15	218.7	-0.7527		
137.10	-0.15	218.8	-0.7509		
137.13	-0.148	218.9	-0.7501		
137.17	-0.145	219	-0.7501		
137.20	-0.145	219	-0.7483		
137.23	-0.144	219	-0.7456		
137.27	-0.142	219.1	-0.7438		
137.30	-0.14	219.2	-0.743		
137.33	-0.139	219.3	-0.7412		
137.37	-0.137	219.4	-0.7394		
137.40	-0.134	219.4	-0.7394		
137.43	-0.134	219.4	-0.7385		
137.47	-0.133	219.5	-0.7367		
137.50	-0.131	219.6	-0.735		
137.53	-0.129	219.7	-0.7332		
137.57	-0.128	219.7	-0.7323		
137.60	-0.126	219.9	-0.7296		
137.63	-0.123	219.9	-0.7296		
137.67	-0.123	219.9	-0.7279		
137.70	-0.122	220	-0.727		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
137.73	-0.12	220.1	-0.7243		
137.77	-0.117	220.3	-0.7225		
137.80	-0.116	220.3	-0.7208		
137.83	-0.114	220.4	-0.719		
137.87	-0.111	220.5	-0.719		
137.90	-0.111	220.5	-0.7172		
137.93	-0.11	220.6	-0.7154		
137.97	-0.108	220.7	-0.7137		
138.00	-0.105	220.8	-0.711		
138.03	-0.103	220.9	-0.7092		
138.07	-0.102	221	-0.7074		
138.10	-0.099	221.1	-0.7074		
138.13	-0.099	221.1	-0.7048		
138.17	-0.098	221.2	-0.703		
138.22	-0.093	221.4	-0.7003		
138.23	-0.091	221.4	-0.6986		
138.27	-0.091	221.5	-0.6968		
138.30	-0.09	221.6	-0.695		
138.33	-0.087	221.7	-0.6932		
138.37	-0.086	221.8	-0.6906		
138.40	-0.084	221.9	-0.6879		
138.43	-0.08	222	-0.6879		
138.47	-0.078	222	-0.6861		
138.50	-0.078	222.1	-0.6835		
138.53	-0.078	222.2	-0.6817		
138.57	-0.073	222.3	-0.679		
138.60	-0.073	222.4	-0.6773		
138.63	-0.071	222.5	-0.6746		
138.67	-0.067	222.7	-0.6746		
138.70	-0.066	222.7	-0.6719		
138.73	-0.066	222.8	-0.6702		
138.77	-0.064	222.9	-0.6666		
138.80	-0.06	223	-0.664		
138.83	-0.059	223.1	-0.6613		
138.87	-0.057	223.2	-0.6586		
138.90	-0.053	223.3	-0.6586		
138.93	-0.052	223.3	-0.6551		
138.97	-0.052	223.4	-0.6533		
139.00	-0.05	223.6	-0.6506		
139.03	-0.047	223.7	-0.648		
139.07	-0.045	223.8	-0.6453		
139.10	-0.044	223.9	-0.6427		
139.13	-0.039	224.1	-0.6427		
139.17	-0.039	224.1	-0.6391		
139.20	-0.039	224.2	-0.6373		
139.23	-0.036	224.3	-0.6338		
139.27	-0.033	224.5	-0.632		
139.30	-0.033	224.6	-0.6276		
139.33	-0.029	224.7	-0.6249		
139.37	-0.026	224.9	-0.6249		
139.40	-0.024	224.9	-0.6213		
139.43	-0.024	225	-0.6187		
139.47	-0.023	225.1	-0.6169		
139.50	-0.018	225.2	-0.6125		
139.53	-0.018	225.3	-0.6107		
139.57	-0.015	225.5	-0.6063		
139.60	-0.012	225.6	-0.6063		
139.65	-0.011	225.7	-0.6009		
139.68	-0.009	225.8	-0.5974		
139.70	-0.005	226	-0.5974		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
139.73	-0.005	226	-0.5938		
139.77	-0.005	226.1	-0.5912		
139.80	-0.002	226.2	-0.5876		
139.83	0.002	226.4	-0.585		
139.87	0.002	226.5	-0.5814		
139.90	0.005	226.6	-0.5779		
139.93	0.009	226.8	-0.5779		
139.97	0.01	226.8	-0.5743		
140.00	0.01	226.9	-0.5716		
140.03	0.012	227	-0.5681		
140.07	0.016	227.2	-0.5637		
140.10	0.017	227.3	-0.561		
140.13	0.019	227.5	-0.5574		
140.17	0.022	227.6	-0.5574		
140.20	0.024	227.6	-0.553		
140.23	0.024	227.7	-0.5503		
140.27	0.026	227.9	-0.5459		
140.30	0.03	228	-0.5423		
140.33	0.031	228.1	-0.5388		
140.37	0.033	228.3	-0.5352		
140.40	0.037	228.4	-0.5352		
140.43	0.038	228.4	-0.5308		
140.47	0.038	228.5	-0.5281		
140.50	0.04	228.7	-0.5237		
140.53	0.044	228.9	-0.5202		
140.57	0.045	229	-0.5157		
140.60	0.047	229.1	-0.5122		
140.63	0.053	229.3	-0.5122		
140.67	0.051	229.3	-0.5077		
140.70	0.051	229.4	-0.5051		
140.73	0.054	229.5	-0.5006		
140.77	0.058	229.7	-0.4953		
140.80	0.06	229.8	-0.4918		
140.83	0.061	229.9	-0.4882		
140.87	0.065	230.1	-0.4882		
140.90	0.066	230.1	-0.4838		
140.93	0.066	230.2	-0.4811		
140.97	0.068	230.3	-0.4767		
141.00	0.072	230.5	-0.4722		
141.03	0.072	230.6	-0.4687		
141.07	0.075	230.8	-0.4642		
141.12	0.078	230.9	-0.4607		
141.15	0.079	231	-0.4562		
141.17	0.08	231.1	-0.4536		
141.20	0.084	231.3	-0.4536		
141.23	0.085	231.3	-0.4483		
141.27	0.085	231.4	-0.4447		
141.30	0.087	231.5	-0.4412		
141.33	0.091	231.7	-0.4358		
141.37	0.092	231.8	-0.4323		
141.40	0.094	231.9	-0.4287		
141.43	0.098	232.1	-0.4287		
141.47	0.098	232.1	-0.4234		
141.50	0.098	232.2	-0.4207		
141.53	0.101	232.3	-0.4154		
141.57	0.104	232.4	-0.411		
141.60	0.105	232.6	-0.4074		
141.63	0.106	232.7	-0.4039		
141.67	0.111	232.9	-0.4039		
141.70	0.112	232.9	-0.3986		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
141.73	0.112	233	-0.3959			
141.77	0.112	233.1	-0.3923			
141.80	0.116	233.3	-0.387			
141.83	0.118	233.4	-0.3835			
141.87	0.12	233.5	-0.379			
141.90	0.123	233.7	-0.379			
141.93	0.124	233.7	-0.3737			
141.97	0.124	233.8	-0.3701			
142.00	0.125	233.9	-0.3666			
142.03	0.129	234.1	-0.3613			
142.07	0.133	234.2	-0.3559			
142.10	0.13	234.3	-0.3542			
142.13	0.133	234.4	-0.3542			
142.17	0.136	234.4	-0.3506			
142.20	0.136	234.5	-0.3462			
142.23	0.137	234.7	-0.3417			
142.27	0.141	234.8	-0.3364			
142.30	0.141	234.9	-0.3329			
142.33	0.143	235	-0.3284			
142.37	0.147	235.2	-0.3284			
142.40	0.147	235.2	-0.3231			
142.43	0.147	235.3	-0.3204			
142.47	0.15	235.5	-0.3142			
142.50	0.151	235.6	-0.3116			
142.55	0.153	235.7	-0.308			
142.58	0.153	235.8	-0.3053			
142.60	0.156	235.9	-0.3009			
142.63	0.157	236	-0.2974			
142.67	0.16	236.2	-0.2929			
142.70	0.161	236.3	-0.2929			
142.73	0.163	236.3	-0.2885			
142.77	0.163	236.4	-0.2849			
142.80	0.164	236.5	-0.2814			
142.83	0.169	236.7	-0.2752			
142.87	0.166	236.7	-0.2734			
142.90	0.169	236.9	-0.269			
142.93	0.172	237	-0.269			
142.97	0.173	237	-0.2645			
143.00	0.173	237.1	-0.261			
143.03	0.174	237.3	-0.2574			
143.07	0.177	237.4	-0.253			
143.10	0.177	237.5	-0.2503			
143.13	0.179	237.6	-0.2459			
143.17	0.181	237.7	-0.2459			
143.20	0.183	237.7	-0.2423			
143.23	0.183	237.8	-0.2388			
143.27	0.183	237.9	-0.2361			
143.30	0.186	238	-0.2317			
143.33	0.187	238.1	-0.229			
143.37	0.188	238.2	-0.2255			
143.40	0.19	238.4	-0.2255			
143.43	0.191	238.4	-0.2219			
143.47	0.191	238.5	-0.2184			
143.50	0.192	238.6	-0.2157			
143.53	0.194	238.7	-0.2113			
143.57	0.198	238.8	-0.2068			
143.60	0.194	238.8	-0.2068			
143.63	0.196	239	-0.2068			
143.67	0.199	239	-0.2033			
143.70	0.199	239.1	-0.1988			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
143.73	0.2	239.2	-0.1962			
143.77	0.201	239.3	-0.1926			
143.80	0.203	239.4	-0.19			
143.83	0.204	239.5	-0.1864			
143.87	0.205	239.6	-0.1864			
143.90	0.206	239.6	-0.1837			
143.93	0.206	239.7	-0.1802			
143.97	0.207	239.8	-0.1784			
144.02	0.211	239.9	-0.1758			
144.05	0.211	240	-0.1722			
144.07	0.209	240	-0.1704			
144.10	0.211	240.1	-0.1678			
144.13	0.212	240.2	-0.166			
144.17	0.214	240.3	-0.1624			
144.20	0.214	240.4	-0.1624			
144.23	0.215	240.4	-0.1607			
144.27	0.215	240.4	-0.158			
144.30	0.216	240.5	-0.1553			
144.33	0.217	240.6	-0.1527			
144.37	0.218	240.7	-0.1509			
144.40	0.218	240.8	-0.1482			
144.43	0.219	240.9	-0.1482			
144.47	0.22	240.9	-0.1465			
144.50	0.22	241	-0.1438			
144.53	0.221	241	-0.142			
144.57	0.224	241.1	-0.1376			
144.60	0.221	241.2	-0.1376			
144.63	0.223	241.3	-0.1349			
144.67	0.224	241.4	-0.1349			
144.70	0.225	241.4	-0.1331			
144.73	0.225	241.5	-0.1314			
144.77	0.225	241.5	-0.1296			
144.80	0.226	241.6	-0.1278			
144.83	0.226	241.7	-0.126			
144.87	0.227	241.8	-0.1243			
144.90	0.23	241.9	-0.1243			
144.93	0.228	241.9	-0.1207			
144.97	0.228	241.9	-0.1198			
145.00	0.227	242	-0.1198			
145.03	0.229	242	-0.1181			
145.07	0.229	242.1	-0.1163			
145.10	0.23	242.2	-0.1145			
145.13	0.23	242.2	-0.1145			
145.17	0.233	242.2	-0.1136			
145.20	0.233	242.3	-0.111			
145.23	0.23	242.4	-0.111			
145.27	0.23	242.4	-0.1101			
145.30	0.232	242.5	-0.1083			
145.33	0.232	242.6	-0.1074			
145.37	0.232	242.6	-0.1074			
145.40	0.232	242.6	-0.1056			
145.45	0.233	242.7	-0.1039			
145.48	0.235	242.8	-0.1039			
145.50	0.232	242.8	-0.1021			
145.53	0.232	242.8	-0.1021			
145.57	0.233	242.9	-0.1012			
145.60	0.233	242.9	-0.1003			
145.63	0.233	243	-0.0994			
145.67	0.234	243.1	-0.0985			
145.70	0.233	243.1	-0.0985			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
145.73	0.236	243.1	-0.0976			
145.77	0.236	243.2	-0.0959			
145.80	0.234	243.2	-0.0968			
145.83	0.231	243.2	-0.0968			
145.87	0.235	243.3	-0.095			
145.90	0.233	243.3	-0.095			
145.93	0.232	243.4	-0.095			
145.97	0.231	243.4	-0.095			
146.00	0.231	243.4	-0.095			
146.03	0.232	243.5	-0.0932			
146.07	0.233	243.5	-0.0923			
146.10	0.234	243.6	-0.0923			
146.13	0.233	243.6	-0.0923			
146.17	0.231	243.6	-0.0923			
146.20	0.231	243.6	-0.0923			
146.23	0.231	243.7	-0.0923			
146.27	0.231	243.7	-0.0923			
146.30	0.231	243.7	-0.0914			
146.33	0.231	243.8	-0.0914			
146.37	0.232	243.8	-0.0905			
146.40	0.229	243.8	-0.0905			
146.43	0.229	243.8	-0.0914			
146.47	0.229	243.9	-0.0914			
146.50	0.228	243.9	-0.0914			
146.53	0.228	243.9	-0.0914			
146.57	0.228	244	-0.0914			
146.60	0.228	244	-0.0914			
146.63	0.227	244	-0.0914			
146.67	0.226	244	-0.0914			
146.70	0.226	244.1	-0.0914			
146.73	0.226	244.1	-0.0914			
146.77	0.226	244.1	-0.0905			
146.80	0.223	244.1	-0.0923			
146.83	0.223	244.1	-0.0923			
146.87	0.223	244.2	-0.0923			
146.92	0.223	244.2	-0.0923			
146.95	0.222	244.2	-0.0923			
146.97	0.223	244.2	-0.0923			
147.00	0.221	244.2	-0.0914			
147.03	0.221	244.2	-0.0932			
147.07	0.218	244.2	-0.0941			
147.10	0.217	244.2	-0.0941			
147.13	0.217	244.3	-0.0941			
147.17	0.217	244.3	-0.0941			
147.20	0.217	244.3	-0.0941			
147.23	0.215	244.3	-0.0941			
147.27	0.215	244.3	-0.095			
147.30	0.214	244.3	-0.095			
147.33	0.213	244.3	-0.0959			
147.37	0.214	244.4	-0.095			
147.40	0.211	244.4	-0.0968			
147.43	0.208	244.3	-0.0968			
147.47	0.208	244.3	-0.0976			
147.50	0.208	244.4	-0.0976			
147.53	0.208	244.4	-0.0976			
147.57	0.207	244.4	-0.0985			
147.60	0.207	244.4	-0.0976			
147.63	0.204	244.4	-0.0994			
147.67	0.203	244.4	-0.0994			
147.70	0.202	244.4	-0.1003			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
147.73	0.202	244.4	-0.1003			
147.77	0.201	244.4	-0.1012			
147.80	0.199	244.4	-0.1021			
147.83	0.198	244.4	-0.1021			
147.87	0.197	244.3	-0.1039			
147.90	0.197	244.4	-0.1039			
147.93	0.193	244.4	-0.103			
147.97	0.193	244.3	-0.1047			
148.00	0.193	244.3	-0.1047			
148.03	0.192	244.3	-0.1056			
148.07	0.19	244.3	-0.1065			
148.10	0.189	244.3	-0.1074			
148.13	0.189	244.3	-0.1074			
148.17	0.184	244.3	-0.1083			
148.20	0.184	244.3	-0.1101			
148.23	0.185	244.3	-0.1101			
148.27	0.184	244.3	-0.111			
148.30	0.183	244.3	-0.111			
148.33	0.182	244.2	-0.1127			
148.38	0.179	244.2	-0.1127			
148.42	0.178	244.2	-0.1136			
148.43	0.174	244.1	-0.1163			
148.47	0.176	244.2	-0.1163			
148.50	0.171	244.2	-0.1154			
148.53	0.171	244.1	-0.1172			
148.57	0.173	244.1	-0.1172			
148.60	0.17	244.1	-0.1189			
148.63	0.165	244	-0.1207			
148.67	0.169	244.1	-0.1198			
148.70	0.166	244	-0.1198			
148.73	0.161	244	-0.1225			
148.77	0.161	244	-0.1234			
148.80	0.163	244	-0.1243			
148.83	0.158	243.9	-0.126			
148.87	0.157	243.9	-0.1269			
148.90	0.157	243.9	-0.1278			
148.93	0.156	243.9	-0.1278			
148.97	0.15	243.9	-0.1287			
149.00	0.15	243.8	-0.1314			
149.03	0.151	243.8	-0.1314			
149.07	0.149	243.7	-0.1323			
149.10	0.149	243.7	-0.134			
149.13	0.145	243.6	-0.1367			
149.17	0.142	243.6	-0.1367			
149.20	0.139	243.6	-0.1385			
149.23	0.139	243.5	-0.1402			
149.27	0.139	243.5	-0.1402			
149.30	0.137	243.5	-0.142			
149.33	0.135	243.4	-0.1438			
149.37	0.134	243.4	-0.1456			
149.40	0.131	243.3	-0.1456			
149.43	0.131	243.3	-0.1456			
149.47	0.131	243.3	-0.1482			
149.50	0.126	243.2	-0.1518			
149.53	0.123	243.2	-0.1527			
149.57	0.123	243.1	-0.1536			
149.60	0.121	243.1	-0.1553			
149.63	0.118	243	-0.1553			
149.67	0.117	243	-0.1571			
149.70	0.117	243	-0.158			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
149.73	0.117	243	-0.1589			
149.77	0.11	242.9	-0.1624			
149.82	0.111	242.8	-0.1633			
149.85	0.11	242.8	-0.1651			
149.87	0.106	242.7	-0.1678			
149.90	0.105	242.7	-0.1687			
149.93	0.104	242.6	-0.1713			
149.97	0.1	242.5	-0.1713			
150.00	0.099	242.5	-0.1731			
150.03	0.099	242.5	-0.1749			
150.07	0.097	242.4	-0.1775			
150.10	0.092	242.3	-0.1784			
150.13	0.092	242.3	-0.1802			
150.17	0.09	242.2	-0.182			
150.20	0.087	242.1	-0.182			
150.23	0.085	242.1	-0.1846			
150.27	0.085	242.1	-0.1864			
150.30	0.086	242.1	-0.1873			
150.33	0.081	241.9	-0.1917			
150.37	0.077	241.9	-0.1944			
150.40	0.077	241.8	-0.1962			
150.43	0.074	241.7	-0.1962			
150.47	0.072	241.7	-0.1988			
150.50	0.072	241.7	-0.2006			
150.53	0.069	241.6	-0.2033			
150.57	0.067	241.5	-0.2059			
150.60	0.065	241.4	-0.2077			
150.63	0.063	241.3	-0.2113			
150.67	0.058	241.2	-0.2113			
150.70	0.058	241.2	-0.2139			
150.73	0.058	241.1	-0.2157			
150.77	0.057	241.1	-0.2184			
150.80	0.051	240.9	-0.2219			
150.83	0.052	240.9	-0.2237			
150.87	0.049	240.8	-0.2263			
150.90	0.046	240.7	-0.2263			
150.93	0.044	240.7	-0.2299			
150.97	0.044	240.6	-0.2326			
151.00	0.042	240.5	-0.2352			
151.03	0.038	240.4	-0.2379			
151.07	0.038	240.3	-0.2397			
151.10	0.036	240.3	-0.2432			
151.13	0.031	240.2	-0.2432			
151.17	0.03	240.2	-0.2468			
151.20	0.03	240.1	-0.2494			
151.23	0.027	240	-0.253			
151.28	0.024	239.9	-0.2556			
151.32	0.024	239.8	-0.2574			
151.33	0.022	239.7	-0.261			
151.37	0.018	239.6	-0.2636			
151.40	0.017	239.5	-0.2663			
151.43	0.015	239.4	-0.2698			
151.47	0.01	239.3	-0.2698			
151.50	0.009	239.3	-0.2734			
151.53	0.009	239.2	-0.2761			
151.57	0.008	239.1	-0.2796			
151.60	0.004	239	-0.2832			
151.63	0.003	238.9	-0.2858			
151.67	0	238.8	-0.2894			
151.70	-0.004	238.7	-0.2894			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
151.73	-0.005	238.7	-0.2938		
151.77	-0.005	238.6	-0.2965		
151.80	-0.006	238.5	-0.3		
151.83	-0.01	238.3	-0.3045		
151.87	-0.012	238.3	-0.3071		
151.90	-0.014	238.1	-0.3107		
151.93	-0.017	238	-0.3107		
151.97	-0.019	238	-0.3151		
152.00	-0.019	237.9	-0.3178		
152.03	-0.021	237.8	-0.3213		
152.07	-0.024	237.7	-0.3258		
152.10	-0.026	237.6	-0.3293		
152.13	-0.028	237.5	-0.3329		
152.17	-0.032	237.3	-0.3329		
152.20	-0.033	237.3	-0.3364		
152.23	-0.033	237.2	-0.34		
152.27	-0.034	237.1	-0.3435		
152.30	-0.038	236.9	-0.348		
152.33	-0.04	236.8	-0.3515		
152.37	-0.042	236.7	-0.3559		
152.40	-0.046	236.5	-0.3559		
152.43	-0.047	236.5	-0.3604		
152.47	-0.047	236.4	-0.363		
152.50	-0.048	236.3	-0.3675		
152.53	-0.053	236.2	-0.3719		
152.57	-0.054	236.1	-0.3755		
152.60	-0.056	235.9	-0.3799		
152.63	-0.06	235.8	-0.3799		
152.67	-0.061	235.8	-0.3843		
152.72	-0.062	235.5	-0.3906		
152.75	-0.065	235.4	-0.3906		
152.77	-0.068	235.4	-0.395		
152.80	-0.068	235.3	-0.3986		
152.83	-0.068	235.2	-0.4021		
152.87	-0.072	235	-0.4057		
152.90	-0.073	234.9	-0.4101		
152.93	-0.075	234.8	-0.4145		
152.97	-0.078	234.6	-0.4145		
153.00	-0.08	234.6	-0.419		
153.03	-0.08	234.5	-0.4234		
153.07	-0.082	234.4	-0.427		
153.10	-0.085	234.2	-0.4323		
153.13	-0.087	234.1	-0.4358		
153.17	-0.089	234	-0.4403		
153.20	-0.092	233.8	-0.4403		
153.23	-0.092	233.8	-0.4456		
153.27	-0.092	233.7	-0.4491		
153.30	-0.095	233.6	-0.4545		
153.33	-0.098	233.4	-0.4589		
153.37	-0.099	233.3	-0.4625		
153.40	-0.101	233.1	-0.4678		
153.43	-0.104	233	-0.4678		
153.47	-0.106	233	-0.4722		
153.50	-0.106	232.9	-0.4758		
153.53	-0.107	232.7	-0.4802		
153.57	-0.111	232.5	-0.4855		
153.60	-0.112	232.4	-0.4891		
153.63	-0.113	232.3	-0.4944		
153.67	-0.116	232.1	-0.4944		
153.70	-0.118	232.1	-0.498		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
153.73	-0.118	232	-0.5033		
153.77	-0.119	231.9	-0.5077		
153.80	-0.122	231.7	-0.5131		
153.83	-0.124	231.6	-0.5166		
153.87	-0.125	231.5	-0.5219		
153.90	-0.129	231.3	-0.5219		
153.93	-0.129	231.3	-0.5264		
153.97	-0.129	231.2	-0.5308		
154.00	-0.13	231	-0.5361		
154.03	-0.134	230.9	-0.5415		
154.07	-0.136	230.7	-0.545		
154.10	-0.136	230.6	-0.5494		
154.13	-0.139	230.5	-0.5494		
154.18	-0.14	230.3	-0.5574		
154.22	-0.141	230.2	-0.5619		
154.23	-0.144	230.1	-0.5619		
154.27	-0.146	230.1	-0.5663		
154.30	-0.146	229.9	-0.5699		
154.33	-0.146	229.8	-0.5743		
154.37	-0.149	229.7	-0.5779		
154.40	-0.15	229.6	-0.5823		
154.43	-0.151	229.4	-0.5867		
154.47	-0.154	229.2	-0.5867		
154.50	-0.155	229.2	-0.5921		
154.53	-0.155	229.1	-0.5956		
154.57	-0.157	229	-0.6		
154.60	-0.159	228.8	-0.6045		
154.63	-0.16	228.7	-0.6089		
154.67	-0.162	228.5	-0.6134		
154.70	-0.163	228.4	-0.6134		
154.73	-0.165	228.4	-0.6169		
154.77	-0.165	228.3	-0.6213		
154.80	-0.165	228.1	-0.6258		
154.83	-0.169	227.9	-0.6302		
154.87	-0.169	227.8	-0.6329		
154.90	-0.17	227.7	-0.6364		
154.93	-0.173	227.6	-0.6364		
154.97	-0.174	227.6	-0.6409		
155.00	-0.174	227.4	-0.6444		
155.03	-0.175	227.3	-0.648		
155.07	-0.177	227.1	-0.6524		
155.10	-0.178	227	-0.656		
155.13	-0.179	226.9	-0.6595		
155.17	-0.182	226.7	-0.6595		
155.20	-0.182	226.7	-0.664		
155.23	-0.182	226.6	-0.6675		
155.27	-0.183	226.5	-0.6711		
155.30	-0.186	226.4	-0.6755		
155.33	-0.186	226.2	-0.6782		
155.37	-0.187	226.1	-0.6817		
155.40	-0.189	226	-0.6817		
155.43	-0.19	226	-0.6861		
155.47	-0.19	225.9	-0.6888		
155.50	-0.19	225.8	-0.6924		
155.53	-0.193	225.6	-0.6968		
155.57	-0.192	225.5	-0.6986		
155.60	-0.194	225.4	-0.703		
155.65	-0.195	225.3	-0.7057		
155.67	-0.196	225.2	-0.7083		
155.70	-0.197	225	-0.7119		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
155.73	-0.198	224.9	-0.7119		
155.77	-0.199	224.9	-0.7146		
155.80	-0.199	224.8	-0.7172		
155.83	-0.2	224.7	-0.7199		
155.87	-0.201	224.6	-0.7234		
155.90	-0.202	224.5	-0.7261		
155.93	-0.202	224.3	-0.7288		
155.97	-0.203	224.2	-0.7288		
156.00	-0.205	224.2	-0.7314		
156.03	-0.205	224.1	-0.735		
156.07	-0.205	224	-0.7367		
156.10	-0.206	223.9	-0.7403		
156.13	-0.208	223.8	-0.743		
156.17	-0.207	223.7	-0.7447		
156.20	-0.209	223.6	-0.7447		
156.23	-0.209	223.6	-0.7483		
156.27	-0.209	223.5	-0.7509		
156.30	-0.21	223.4	-0.7527		
156.33	-0.21	223.3	-0.7554		
156.37	-0.211	223.2	-0.758		
156.40	-0.213	223.1	-0.7607		
156.43	-0.213	223	-0.7607		
156.47	-0.213	223	-0.7634		
156.50	-0.213	223	-0.7643		
156.53	-0.214	222.9	-0.7669		
156.57	-0.214	222.8	-0.7687		
156.60	-0.215	222.7	-0.7714		
156.63	-0.215	222.6	-0.7731		
156.67	-0.216	222.5	-0.7731		
156.70	-0.217	222.5	-0.7758		
156.73	-0.217	222.4	-0.7776		
156.77	-0.216	222.4	-0.7785		
156.80	-0.217	222.3	-0.7802		
156.83	-0.217	222.2	-0.782		
156.87	-0.218	222.1	-0.7847		
156.90	-0.218	222.1	-0.7847		
156.93	-0.218	222.1	-0.7856		
156.97	-0.218	222	-0.7873		
157.00	-0.218	221.9	-0.7891		
157.03	-0.219	221.9	-0.79		
157.08	-0.219	221.8	-0.7918		
157.12	-0.219	221.7	-0.7936		
157.13	-0.219	221.7	-0.7944		
157.17	-0.219	221.6	-0.7962		
157.20	-0.22	221.5	-0.7971		
157.23	-0.22	221.5	-0.7971		
157.27	-0.22	221.5	-0.7989		
157.30	-0.22	221.4	-0.7998		
157.33	-0.22	221.4	-0.8007		
157.37	-0.22	221.3	-0.8015		
157.40	-0.22	221.3	-0.8033		
157.43	-0.22	221.2	-0.8042		
157.47	-0.22	221.2	-0.8042		
157.50	-0.22	221.2	-0.8042		
157.53	-0.22	221.1	-0.8051		
157.57	-0.22	221.1	-0.806		
157.60	-0.219	221	-0.8069		
157.63	-0.22	221	-0.8078		
157.67	-0.219	221	-0.8086		
157.70	-0.219	220.9	-0.8086		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
157.73	-0.219	220.9	-0.8086		
157.77	-0.219	220.9	-0.8095		
157.80	-0.219	220.9	-0.8104		
157.83	-0.219	220.8	-0.8104		
157.87	-0.218	220.8	-0.8104		
157.90	-0.218	220.8	-0.8113		
157.93	-0.218	220.7	-0.8113		
157.97	-0.217	220.7	-0.8113		
158.00	-0.217	220.7	-0.8122		
158.03	-0.217	220.7	-0.8122		
158.07	-0.217	220.7	-0.8122		
158.10	-0.216	220.7	-0.8122		
158.13	-0.216	220.6	-0.8122		
158.17	-0.215	220.6	-0.8122		
158.20	-0.215	220.6	-0.8122		
158.23	-0.215	220.6	-0.8122		
158.27	-0.214	220.6	-0.8122		
158.30	-0.214	220.6	-0.8131		
158.33	-0.213	220.6	-0.8122		
158.37	-0.212	220.6	-0.8122		
158.40	-0.211	220.6	-0.8122		
158.43	-0.211	220.6	-0.8122		
158.47	-0.211	220.6	-0.8122		
158.50	-0.211	220.6	-0.8122		
158.55	-0.209	220.6	-0.8113		
158.58	-0.209	220.6	-0.8113		
158.60	-0.209	220.6	-0.8113		
158.63	-0.208	220.6	-0.8113		
158.67	-0.207	220.6	-0.8104		
158.70	-0.207	220.6	-0.8104		
158.73	-0.206	220.6	-0.8104		
158.77	-0.204	220.6	-0.8104		
158.80	-0.204	220.6	-0.8095		
158.83	-0.204	220.6	-0.8095		
158.87	-0.203	220.6	-0.8095		
158.90	-0.202	220.6	-0.8086		
158.93	-0.201	220.6	-0.8078		
158.97	-0.2	220.7	-0.8078		
159.00	-0.199	220.7	-0.8078		
159.03	-0.199	220.7	-0.8069		
159.07	-0.199	220.7	-0.8069		
159.10	-0.198	220.7	-0.806		
159.13	-0.195	220.8	-0.8051		
159.17	-0.195	220.8	-0.8051		
159.20	-0.194	220.8	-0.8042		
159.23	-0.193	220.8	-0.8042		
159.27	-0.192	220.8	-0.8042		
159.30	-0.192	220.8	-0.8033		
159.33	-0.19	220.9	-0.8024		
159.37	-0.189	220.9	-0.8015		
159.40	-0.188	220.9	-0.8015		
159.43	-0.188	220.9	-0.8007		
159.47	-0.186	221	-0.8007		
159.50	-0.185	221	-0.7998		
159.53	-0.185	221	-0.7989		
159.57	-0.183	221.1	-0.798		
159.60	-0.181	221.1	-0.7971		
159.63	-0.182	221.2	-0.7971		
159.67	-0.181	221.2	-0.7962		
159.70	-0.179	221.2	-0.7944		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
159.73	-0.176	221.3	-0.7944		
159.77	-0.175	221.3	-0.7936		
159.80	-0.175	221.3	-0.7927		
159.83	-0.174	221.4	-0.7918		
159.87	-0.172	221.4	-0.7909		
159.90	-0.171	221.5	-0.79		
159.93	-0.17	221.5	-0.7891		
159.98	-0.169	221.6	-0.7882		
160.02	-0.167	221.6	-0.7873		
160.05	-0.166	221.7	-0.7864		
160.08	-0.164	221.7	-0.7864		
160.12	-0.164	221.7	-0.7856		
160.13	-0.162	221.8	-0.7847		
160.17	-0.161	221.9	-0.7829		
160.20	-0.159	221.9	-0.782		
160.23	-0.159	222	-0.7811		
160.27	-0.156	222	-0.7811		
160.30	-0.154	222	-0.7793		
160.33	-0.154	222.1	-0.7785		
160.37	-0.153	222.2	-0.7767		
160.40	-0.15	222.3	-0.7749		
160.43	-0.149	222.3	-0.774		
160.47	-0.148	222.4	-0.7731		
160.50	-0.145	222.5	-0.7731		
160.53	-0.144	222.5	-0.7714		
160.57	-0.144	222.5	-0.7705		
160.60	-0.143	222.6	-0.7687		
160.63	-0.14	222.7	-0.7669		
160.67	-0.139	222.8	-0.7651		
160.70	-0.137	222.8	-0.7643		
160.73	-0.135	222.9	-0.7643		
160.77	-0.133	222.9	-0.7625		
160.80	-0.133	223	-0.7607		
160.83	-0.131	223.1	-0.7589		
160.87	-0.129	223.2	-0.7572		
160.90	-0.128	223.2	-0.7563		
160.93	-0.125	223.3	-0.7563		
160.97	-0.123	223.4	-0.7536		
161.00	-0.123	223.4	-0.7518		
161.03	-0.122	223.5	-0.7501		
161.07	-0.119	223.6	-0.7483		
161.10	-0.118	223.7	-0.7456		
161.13	-0.116	223.8	-0.7438		
161.17	-0.114	223.9	-0.7438		
161.20	-0.111	224	-0.7412		
161.23	-0.111	224	-0.7403		
161.27	-0.11	224.1	-0.7385		
161.30	-0.107	224.2	-0.7359		
161.33	-0.105	224.3	-0.7341		
161.37	-0.104	224.4	-0.7323		
161.40	-0.101	224.5	-0.7323		
161.45	-0.099	224.6	-0.7279		
161.48	-0.099	224.7	-0.7261		
161.50	-0.096	224.8	-0.7261		
161.53	-0.094	224.9	-0.7243		
161.57	-0.094	224.9	-0.7217		
161.60	-0.091	225	-0.7199		
161.63	-0.089	225.1	-0.7172		
161.67	-0.087	225.2	-0.7146		
161.70	-0.086	225.3	-0.7128		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
161.73	-0.083	225.4	-0.7128		
161.77	-0.081	225.6	-0.711		
161.80	-0.081	225.6	-0.7083		
161.83	-0.079	225.7	-0.7057		
161.87	-0.077	225.8	-0.703		
161.90	-0.073	225.9	-0.7012		
161.93	-0.073	226	-0.6995		
161.97	-0.07	226.1	-0.6995		
162.00	-0.066	226.3	-0.6968		
162.03	-0.066	226.3	-0.6932		
162.07	-0.067	226.3	-0.6915		
162.10	-0.064	226.5	-0.6888		
162.13	-0.061	226.6	-0.6861		
162.17	-0.059	226.7	-0.6826		
162.20	-0.056	226.8	-0.6826		
162.23	-0.054	227	-0.6799		
162.27	-0.054	227	-0.6773		
162.30	-0.053	227.1	-0.6746		
162.33	-0.049	227.2	-0.6719		
162.37	-0.047	227.4	-0.6693		
162.40	-0.045	227.5	-0.6657		
162.43	-0.042	227.6	-0.6657		
162.47	-0.039	227.8	-0.6631		
162.50	-0.039	227.8	-0.6595		
162.53	-0.038	227.9	-0.6577		
162.57	-0.036	228	-0.6551		
162.60	-0.034	228.1	-0.6524		
162.63	-0.031	228.2	-0.6489		
162.67	-0.027	228.4	-0.6489		
162.70	-0.027	228.5	-0.6453		
162.73	-0.027	228.5	-0.6435		
162.77	-0.025	228.7	-0.6391		
162.80	-0.021	228.8	-0.6356		
162.83	-0.019	228.9	-0.6329		
162.88	-0.017	229.1	-0.6311		
162.92	-0.016	229.2	-0.6284		
162.93	-0.013	229.3	-0.6249		
162.97	-0.011	229.4	-0.6222		
163.00	-0.009	229.6	-0.6187		
163.03	-0.006	229.7	-0.6187		
163.07	-0.006	229.7	-0.616		
163.10	-0.004	229.8	-0.6125		
163.13	-0.001	229.9	-0.6089		
163.17	0.001	230.1	-0.6054		
163.20	0.003	230.2	-0.6018		
163.23	0.006	230.4	-0.5983		
163.27	0.009	230.5	-0.5983		
163.30	0.009	230.5	-0.5938		
163.33	0.01	230.6	-0.5912		
163.37	0.012	230.8	-0.5867		
163.40	0.017	230.9	-0.5832		
163.43	0.017	231	-0.5814		
163.47	0.019	231.2	-0.577		
163.50	0.022	231.3	-0.577		
163.53	0.022	231.3	-0.5743		
163.57	0.024	231.4	-0.5699		
163.60	0.027	231.6	-0.5539		
163.63	0.03	231.7	-0.5566		
163.67	0.031	231.8	-0.5539		
163.70	0.035	232	-0.5539		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
163.73	0.035	232.1	-0.5494			
163.77	0.035	232.1	-0.5468			
163.80	0.038	232.2	-0.5423			
163.83	0.041	232.4	-0.5379			
163.87	0.044	232.5	-0.5344			
163.90	0.046	232.7	-0.5299			
163.93	0.047	232.8	-0.5299			
163.97	0.051	233	-0.5273			
164.00	0.051	233	-0.5228			
164.03	0.052	233.1	-0.5202			
164.07	0.055	233.3	-0.5139			
164.10	0.058	233.4	-0.5095			
164.13	0.058	233.5	-0.5068			
164.17	0.062	233.7	-0.5068			
164.20	0.067	233.9	-0.5015			
164.23	0.067	233.9	-0.4953			
164.27	0.067	234	-0.4926			
164.30	0.067	234.1	-0.4909			
164.35	0.072	234.2	-0.4855			
164.38	0.071	234.3	-0.4829			
164.40	0.074	234.5	-0.4784			
164.43	0.078	234.7	-0.474			
164.47	0.079	234.8	-0.4704			
164.50	0.081	234.9	-0.466			
164.53	0.084	235.1	-0.466			
164.57	0.084	235.1	-0.4616			
164.60	0.085	235.2	-0.4571			
164.63	0.088	235.3	-0.4527			
164.67	0.091	235.5	-0.4483			
164.70	0.092	235.6	-0.4447			
164.73	0.094	235.7	-0.4394			
164.77	0.098	235.9	-0.4394			
164.80	0.098	235.9	-0.4349			
164.83	0.098	236	-0.4314			
164.87	0.101	236.2	-0.427			
164.90	0.104	236.3	-0.4225			
164.93	0.105	236.5	-0.419			
164.97	0.108	236.6	-0.4136			
165.00	0.11	236.7	-0.4136			
165.03	0.11	236.7	-0.4101			
165.07	0.111	236.9	-0.4057			
165.10	0.114	237.1	-0.4021			
165.13	0.116	237.2	-0.3977			
165.17	0.118	237.3	-0.3932			
165.20	0.12	237.4	-0.3932			
165.23	0.123	237.6	-0.3888			
165.27	0.123	237.6	-0.3843			
165.30	0.123	237.7	-0.3808			
165.33	0.126	237.8	-0.3764			
165.37	0.129	238	-0.3719			
165.40	0.13	238.1	-0.3675			
165.43	0.132	238.2	-0.3675			
165.47	0.135	238.4	-0.363			
165.50	0.135	238.4	-0.3577			
165.53	0.138	238.5	-0.3524			
165.57	0.137	238.6	-0.3497			
165.60	0.14	238.8	-0.3453			
165.63	0.142	238.9	-0.3417			
165.67	0.144	239	-0.3417			
165.70	0.146	239.1	-0.3373			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
165.73	0.146	239.1	-0.3329			
165.77	0.148	239.3	-0.3284			
165.82	0.151	239.5	-0.324			
165.83	0.151	239.5	-0.3204			
165.87	0.152	239.6	-0.3169			
165.90	0.154	239.8	-0.3124			
165.93	0.156	239.9	-0.3089			
165.97	0.158	240	-0.3045			
166.00	0.16	240.1	-0.3009			
166.03	0.162	240.3	-0.3009			
166.07	0.162	240.3	-0.2947			
166.10	0.163	240.3	-0.2911			
166.13	0.165	240.5	-0.2876			
166.17	0.166	240.6	-0.284			
166.20	0.168	240.7	-0.2796			
166.23	0.17	240.8	-0.2752			
166.27	0.171	240.9	-0.2752			
166.30	0.171	240.9	-0.2725			
166.33	0.173	241	-0.2681			
166.37	0.175	241.2	-0.2645			
166.40	0.176	241.3	-0.261			
166.43	0.178	241.4	-0.2565			
166.47	0.179	241.5	-0.253			
166.50	0.181	241.7	-0.253			
166.53	0.181	241.7	-0.2494			
166.57	0.182	241.8	-0.2459			
166.60	0.184	241.9	-0.2423			
166.63	0.186	242	-0.2388			
166.67	0.186	242.1	-0.2352			
166.70	0.188	242.2	-0.2317			
166.73	0.192	242.4	-0.2317			
166.77	0.192	242.4	-0.2255			
166.80	0.191	242.4	-0.2237			
166.83	0.19	242.5	-0.2228			
166.87	0.194	242.6	-0.2166			
166.90	0.195	242.7	-0.2148			
166.93	0.196	242.8	-0.2113			
166.97	0.198	242.9	-0.2113			
167.00	0.198	242.9	-0.2077			
167.03	0.198	243	-0.205			
167.07	0.203	243.2	-0.1997			
167.10	0.2	243.3	-0.1988			
167.13	0.202	243.4	-0.1953			
167.17	0.207	243.5	-0.1953			
167.20	0.206	243.6	-0.19			
167.25	0.206	243.7	-0.1855			
167.28	0.206	243.7	-0.1829			
167.30	0.207	243.8	-0.1829			
167.33	0.207	243.8	-0.182			
167.37	0.208	243.9	-0.1784			
167.40	0.212	244	-0.1758			
167.43	0.21	244.1	-0.174			
167.47	0.214	244.2	-0.1695			
167.50	0.215	244.3	-0.1669			
167.53	0.213	244.4	-0.1669			
167.57	0.213	244.4	-0.166			
167.60	0.214	244.5	-0.1624			
167.63	0.217	244.6	-0.1589			
167.67	0.218	244.7	-0.1571			
167.70	0.217	244.8	-0.1553			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
167.73	0.221	244.9	-0.1518			
167.77	0.218	244.9	-0.1518			
167.80	0.218	244.9	-0.1509			
167.83	0.219	245	-0.1491			
167.87	0.221	245.1	-0.1465			
167.90	0.224	245.2	-0.1429			
167.93	0.223	245.3	-0.142			
167.97	0.223	245.3	-0.1411			
168.00	0.224	245.5	-0.1411			
168.03	0.224	245.5	-0.1385			
168.07	0.223	245.5	-0.1376			
168.10	0.224	245.6	-0.1358			
168.13	0.228	245.7	-0.1323			
168.17	0.227	245.8	-0.1314			
168.20	0.226	245.8	-0.1305			
168.23	0.226	245.9	-0.1305			
168.27	0.226	245.9	-0.1296			
168.30	0.227	246	-0.1269			
168.33	0.229	246.1	-0.1252			
168.37	0.232	246.2	-0.1225			
168.40	0.23	246.2	-0.1216			
168.43	0.228	246.3	-0.1207			
168.47	0.229	246.3	-0.1207			
168.50	0.229	246.3	-0.1198			
168.53	0.231	246.4	-0.1181			
168.57	0.232	246.5	-0.1163			
168.60	0.232	246.5	-0.1145			
168.63	0.234	246.6	-0.1127			
168.67	0.233	246.7	-0.1118			
168.72	0.232	246.7	-0.111			
168.75	0.231	246.8	-0.111			
168.77	0.232	246.8	-0.1101			
168.80	0.233	246.9	-0.1101			
168.83	0.233	246.9	-0.1083			
168.87	0.233	246.9	-0.1074			
168.90	0.233	247	-0.1065			
168.93	0.233	247	-0.1047			
168.97	0.235	247.1	-0.1039			
169.00	0.235	247.2	-0.1039			
169.03	0.232	247.2	-0.1039			
169.07	0.232	247.2	-0.1039			
169.10	0.232	247.2	-0.103			
169.13	0.233	247.3	-0.1012			
169.17	0.234	247.3	-0.1012			
169.20	0.233	247.4	-0.1012			
169.23	0.233	247.4	-0.1003			
169.27	0.233	247.5	-0.1003			
169.30	0.233	247.5	-0.1003			
169.33	0.235	247.5	-0.0985			
169.37	0.234	247.6	-0.0985			
169.40	0.233	247.6	-0.0985			
169.43	0.231	247.6	-0.0994			
169.47	0.231	247.7	-0.0985			
169.50	0.232	247.7	-0.0985			
169.53	0.232	247.7	-0.0976			
169.57	0.233	247.8	-0.0968			
169.60	0.232	247.8	-0.0976			
169.63	0.23	247.8	-0.0976			
169.67	0.23	247.9	-0.0976			
169.70	0.23	247.9	-0.0968			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
169.73	0.231	247.9	-0.0968		
169.77	0.231	247.9	-0.0959		
169.80	0.229	248	-0.0968		
169.83	0.228	248	-0.0976		
169.87	0.228	248	-0.0968		
169.90	0.228	248.1	-0.0968		
169.93	0.227	248.1	-0.0968		
169.97	0.229	248.1	-0.0968		
170.00	0.225	248.1	-0.0959		
170.03	0.225	248.1	-0.0976		
170.07	0.225	248.2	-0.0976		
170.10	0.225	248.2	-0.0976		
170.15	0.225	248.2	-0.0976		
170.18	0.224	248.2	-0.0976		
170.20	0.225	248.3	-0.0968		
170.23	0.221	248.3	-0.0985		
170.27	0.222	248.3	-0.0985		
170.30	0.221	248.3	-0.0985		
170.33	0.221	248.3	-0.0985		
170.37	0.221	248.3	-0.0985		
170.40	0.219	248.3	-0.0994		
170.43	0.22	248.4	-0.0994		
170.47	0.216	248.3	-0.1003		
170.50	0.216	248.4	-0.1003		
170.53	0.216	248.4	-0.1003		
170.57	0.215	248.4	-0.1003		
170.60	0.215	248.4	-0.1003		
170.63	0.214	248.4	-0.1012		
170.67	0.212	248.4	-0.1021		
170.70	0.212	248.4	-0.1021		
170.73	0.211	248.4	-0.1021		
170.77	0.21	248.4	-0.1021		
170.80	0.209	248.4	-0.103		
170.83	0.209	248.4	-0.1039		
170.87	0.208	248.4	-0.1039		
170.90	0.207	248.4	-0.1047		
170.93	0.206	248.5	-0.1039		
170.97	0.204	248.4	-0.1056		
171.00	0.203	248.4	-0.1056		
171.03	0.202	248.4	-0.1065		
171.07	0.202	248.4	-0.1065		
171.10	0.201	248.4	-0.1074		
171.13	0.199	248.4	-0.1083		
171.17	0.198	248.4	-0.1083		
171.20	0.197	248.4	-0.1092		
171.23	0.196	248.4	-0.1092		
171.27	0.194	248.4	-0.1101		
171.30	0.194	248.4	-0.111		
171.33	0.193	248.4	-0.111		
171.37	0.191	248.4	-0.1127		
171.40	0.191	248.4	-0.1127		
171.43	0.189	248.4	-0.1136		
171.47	0.187	248.4	-0.1136		
171.50	0.186	248.4	-0.1145		
171.53	0.186	248.3	-0.1145		
171.57	0.186	248.4	-0.1154		
171.62	0.181	248.3	-0.1163		
171.65	0.181	248.3	-0.1181		
171.67	0.181	248.3	-0.1181		
171.70	0.179	248.3	-0.1189		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
171.73	0.177	248.2	-0.1198			
171.77	0.178	248.3	-0.1198			
171.80	0.172	248.2	-0.1198			
171.83	0.173	248.2	-0.1225			
171.87	0.173	248.2	-0.1225			
171.90	0.171	248.2	-0.1243			
171.93	0.17	248.1	-0.1252			
171.97	0.17	248.1	-0.1252			
172.00	0.166	248.1	-0.1287			
172.03	0.163	248	-0.1287			
172.07	0.163	248	-0.1296			
172.10	0.163	248	-0.1296			
172.13	0.161	248	-0.1314			
172.17	0.159	248	-0.1323			
172.20	0.159	247.9	-0.134			
172.23	0.154	247.9	-0.1358			
172.27	0.153	247.8	-0.1358			
172.30	0.152	247.8	-0.1367			
172.33	0.152	247.8	-0.1367			
172.37	0.152	247.8	-0.1385			
172.40	0.147	247.7	-0.1402			
172.43	0.146	247.7	-0.1411			
172.47	0.146	247.7	-0.142			
172.50	0.144	247.6	-0.142			
172.53	0.141	247.6	-0.1438			
172.57	0.141	247.6	-0.1456			
172.60	0.138	247.5	-0.1473			
172.63	0.137	247.5	-0.1482			
172.67	0.135	247.4	-0.15			
172.70	0.135	247.4	-0.1509			
172.73	0.132	247.4	-0.1509			
172.77	0.129	247.4	-0.1527			
172.80	0.129	247.3	-0.1553			
172.83	0.126	247.2	-0.158			
172.87	0.124	247.2	-0.1589			
172.90	0.125	247.2	-0.1589			
172.93	0.121	247.1	-0.1616			
172.97	0.116	247	-0.1616			
173.00	0.116	247	-0.1651			
173.05	0.115	246.9	-0.166			
173.08	0.116	246.9	-0.166			
173.10	0.11	246.9	-0.1669			
173.13	0.11	246.8	-0.1704			
173.17	0.11	246.8	-0.1722			
173.20	0.107	246.7	-0.174			
173.23	0.105	246.7	-0.1749			
173.27	0.104	246.6	-0.1775			
173.30	0.099	246.5	-0.1775			
173.33	0.099	246.5	-0.1793			
173.37	0.099	246.5	-0.1811			
173.40	0.097	246.4	-0.1829			
173.43	0.093	246.3	-0.1855			
173.47	0.094	246.3	-0.1864			
173.50	0.09	246.2	-0.1908			
173.53	0.085	246.1	-0.1908			
173.57	0.085	246.1	-0.1935			
173.60	0.085	246	-0.1944			
173.63	0.084	246	-0.1971			
173.67	0.082	245.9	-0.1979			
173.70	0.08	245.9	-0.1997			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
173.73	0.077	245.7	-0.2033			
173.77	0.073	245.7	-0.2033			
173.80	0.072	245.7	-0.2059			
173.83	0.072	245.6	-0.2077			
173.87	0.07	245.5	-0.2104			
173.90	0.064	245.3	-0.2148			
173.93	0.065	245.3	-0.2166			
173.97	0.062	245.2	-0.2192			
174.00	0.059	245.1	-0.2192			
174.03	0.058	245.1	-0.2219			
174.07	0.058	245.1	-0.2237			
174.10	0.056	245	-0.2263			
174.13	0.054	244.9	-0.229			
174.17	0.049	244.8	-0.2317			
174.20	0.049	244.7	-0.2334			
174.23	0.046	244.6	-0.2334			
174.27	0.045	244.6	-0.2361			
174.30	0.045	244.5	-0.2388			
174.33	0.042	244.4	-0.2432			
174.37	0.038	244.3	-0.2459			
174.40	0.038	244.2	-0.2485			
174.43	0.035	244.1	-0.2521			
174.47	0.031	244	-0.2521			
174.52	0.03	243.9	-0.2574			
174.55	0.029	243.8	-0.2601			
174.57	0.025	243.7	-0.2601			
174.60	0.024	243.7	-0.2627			
174.63	0.024	243.6	-0.2654			
174.67	0.022	243.5	-0.269			
174.70	0.018	243.4	-0.2725			
174.73	0.016	243.3	-0.2743			
174.77	0.016	243.2	-0.2778			
174.80	0.01	243.1	-0.2778			
174.83	0.009	243.1	-0.2814			
174.87	0.009	243	-0.2849			
174.90	0.008	242.9	-0.2885			
174.93	0.003	242.8	-0.2929			
174.97	0.003	242.7	-0.2956			
175.00	0.001	242.6	-0.2991			
175.03	-0.004	242.4	-0.2991			
175.07	-0.004	242.4	-0.3027			
175.10	-0.004	242.4	-0.3053			
175.13	-0.006	242.2	-0.3098			
175.17	-0.011	242.1	-0.3133			
175.20	-0.011	242	-0.316			
175.23	-0.014	241.9	-0.3204			
175.27	-0.018	241.7	-0.3204			
175.30	-0.019	241.7	-0.3249			
175.33	-0.019	241.7	-0.3275			
175.37	-0.02	241.5	-0.332			
175.40	-0.026	241.4	-0.3364			
175.43	-0.026	241.3	-0.3391			
175.47	-0.027	241.1	-0.3426			
175.50	-0.033	241	-0.3426			
175.53	-0.032	241	-0.3471			
175.57	-0.032	240.9	-0.3506			
175.60	-0.035	240.8	-0.3551			
175.63	-0.039	240.6	-0.3595			
175.67	-0.04	240.5	-0.3622			
175.70	-0.042	240.4	-0.3666			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
175.73	-0.046	240.3	-0.3666		
175.77	-0.047	240.3	-0.3701		
175.80	-0.047	240.2	-0.3746		
175.83	-0.049	240	-0.3781		
175.87	-0.053	239.9	-0.3835		
175.90	-0.054	239.8	-0.387		
175.93	-0.056	239.6	-0.3914		
175.98	-0.058	239.5	-0.395		
176.02	-0.06	239.4	-0.3986		
176.03	-0.062	239.3	-0.4021		
176.07	-0.066	239.1	-0.4021		
176.10	-0.066	239.1	-0.4057		
176.13	-0.066	239	-0.4092		
176.17	-0.069	238.9	-0.4145		
176.20	-0.072	238.7	-0.419		
176.23	-0.073	238.6	-0.4225		
176.27	-0.075	238.5	-0.4278		
176.30	-0.078	238.3	-0.4278		
176.33	-0.08	238.3	-0.4314		
176.37	-0.08	238.2	-0.4358		
176.40	-0.082	238	-0.4403		
176.43	-0.085	237.9	-0.4447		
176.47	-0.087	237.7	-0.45		
176.50	-0.088	237.6	-0.4536		
176.53	-0.091	237.5	-0.4536		
176.57	-0.093	237.5	-0.4589		
176.60	-0.093	237.3	-0.4625		
176.63	-0.095	237.2	-0.4669		
176.67	-0.097	237.1	-0.4722		
176.70	-0.1	236.9	-0.4767		
176.73	-0.101	236.7	-0.4811		
176.77	-0.104	236.6	-0.4811		
176.80	-0.106	236.6	-0.4855		
176.83	-0.106	236.4	-0.49		
176.87	-0.107	236.3	-0.4953		
176.90	-0.111	236.1	-0.5006		
176.93	-0.112	236	-0.5042		
176.97	-0.113	235.9	-0.5086		
177.00	-0.116	235.7	-0.5086		
177.03	-0.118	235.7	-0.5139		
177.07	-0.118	235.6	-0.5184		
177.10	-0.119	235.4	-0.5237		
177.13	-0.122	235.2	-0.529		
177.17	-0.123	235.1	-0.5335		
177.20	-0.125	235	-0.5379		
177.23	-0.128	234.8	-0.5379		
177.27	-0.129	234.8	-0.5423		
177.30	-0.129	234.7	-0.5468		
177.33	-0.131	234.6	-0.5512		
177.37	-0.133	234.4	-0.5566		
177.42	-0.135	234.3	-0.5601		
177.45	-0.136	234.1	-0.5645		
177.47	-0.138	234	-0.569		
177.50	-0.139	233.8	-0.5734		
177.53	-0.141	233.7	-0.5779		
177.57	-0.144	233.5	-0.5779		
177.60	-0.145	233.5	-0.5832		
177.63	-0.145	233.4	-0.5867		
177.67	-0.146	233.3	-0.5912		
177.70	-0.149	233.1	-0.5965		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
177.73	-0.151	233	-0.6009		
177.77	-0.151	232.8	-0.6054		
177.80	-0.154	232.6	-0.6054		
177.83	-0.155	232.6	-0.6089		
177.87	-0.155	232.5	-0.6134		
177.90	-0.157	232.4	-0.6178		
177.93	-0.16	232.2	-0.6231		
177.97	-0.16	232.1	-0.6258		
178.00	-0.161	231.9	-0.6302		
178.03	-0.164	231.8	-0.6302		
178.07	-0.165	231.8	-0.6347		
178.10	-0.165	231.7	-0.6382		
178.13	-0.166	231.5	-0.6427		
178.17	-0.169	231.4	-0.6471		
178.20	-0.17	231.3	-0.6506		
178.23	-0.171	231.1	-0.6551		
178.27	-0.173	231	-0.6551		
178.30	-0.174	231	-0.6586		
178.33	-0.174	230.9	-0.6622		
178.37	-0.175	230.7	-0.6666		
178.40	-0.178	230.6	-0.6711		
178.43	-0.178	230.5	-0.6746		
178.47	-0.179	230.3	-0.6782		
178.50	-0.182	230.2	-0.6782		
178.53	-0.182	230.2	-0.6826		
178.57	-0.182	230	-0.6861		
178.60	-0.183	229.9	-0.6897		
178.63	-0.185	229.8	-0.6932		
178.67	-0.186	229.7	-0.6968		
178.70	-0.187	229.5	-0.7012		
178.73	-0.189	229.4	-0.7012		
178.77	-0.189	229.4	-0.7048		
178.80	-0.189	229.3	-0.7074		
178.83	-0.19	229.1	-0.7119		
178.88	-0.193	229	-0.7146		
178.92	-0.193	228.9	-0.7181		
178.93	-0.193	228.8	-0.7208		
178.97	-0.195	228.6	-0.7234		
179.00	-0.196	228.5	-0.727		
179.03	-0.197	228.4	-0.7296		
179.07	-0.198	228.3	-0.7296		
179.10	-0.199	228.3	-0.7332		
179.13	-0.199	228.1	-0.7359		
179.17	-0.199	228	-0.7385		
179.20	-0.201	227.9	-0.7421		
179.23	-0.202	227.8	-0.7447		
179.27	-0.202	227.7	-0.7483		
179.30	-0.204	227.6	-0.7483		
179.33	-0.205	227.6	-0.7518		
179.37	-0.205	227.5	-0.7545		
179.40	-0.205	227.3	-0.7563		
179.43	-0.206	227.2	-0.7598		
179.47	-0.207	227.1	-0.7616		
179.50	-0.207	227	-0.7643		
179.53	-0.209	226.9	-0.7643		
179.57	-0.209	226.9	-0.7669		
179.60	-0.209	226.8	-0.7696		
179.63	-0.209	226.7	-0.7714		
179.67	-0.21	226.6	-0.774		
179.70	-0.211	226.5	-0.7767		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
179.73	-0.212	226.4	-0.7793		
179.77	-0.213	226.3	-0.7793		
179.80	-0.213	226.3	-0.7811		
179.83	-0.213	226.2	-0.7838		
179.87	-0.214	226.1	-0.7856		
179.90	-0.214	226	-0.7873		
179.93	-0.215	225.9	-0.79		
179.97	-0.215	225.8	-0.7918		
180.00	-0.215	225.8	-0.7918		
180.03	-0.216	225.8	-0.7936		
180.07	-0.216	225.7	-0.7953		
180.10	-0.216	225.6	-0.7971		
180.13	-0.217	225.5	-0.7989		
180.17	-0.217	225.4	-0.8007		
180.20	-0.217	225.4	-0.8024		
180.23	-0.219	225.3	-0.8024		
180.27	-0.218	225.3	-0.8042		
180.32	-0.218	225.1	-0.8069		
180.35	-0.219	225.1	-0.8069		
180.37	-0.219	225.1	-0.8086		
180.40	-0.219	225	-0.8104		
180.43	-0.219	224.9	-0.8113		
180.47	-0.219	224.9	-0.8122		
180.50	-0.219	224.8	-0.814		
180.53	-0.22	224.7	-0.8149		
180.57	-0.22	224.7	-0.8149		
180.60	-0.219	224.7	-0.8166		
180.63	-0.219	224.6	-0.8175		
180.67	-0.22	224.5	-0.8184		
180.70	-0.22	224.5	-0.8193		
180.73	-0.22	224.4	-0.8202		
180.77	-0.22	224.4	-0.822		
180.80	-0.22	224.3	-0.822		
180.83	-0.22	224.3	-0.822		
180.87	-0.22	224.3	-0.8228		
180.90	-0.22	224.2	-0.8237		
180.93	-0.219	224.2	-0.8246		
180.97	-0.219	224.1	-0.8255		
181.00	-0.219	224.1	-0.8255		
181.03	-0.219	224.1	-0.8255		
181.07	-0.219	224.1	-0.8264		
181.10	-0.219	224	-0.8273		
181.13	-0.219	224	-0.8273		
181.17	-0.218	224	-0.8282		
181.20	-0.218	223.9	-0.8282		
181.23	-0.218	223.9	-0.8291		
181.27	-0.217	223.9	-0.8291		
181.30	-0.217	223.9	-0.8291		
181.33	-0.217	223.8	-0.8291		
181.37	-0.217	223.8	-0.8291		
181.40	-0.216	223.8	-0.8291		
181.43	-0.216	223.8	-0.8299		
181.47	-0.216	223.8	-0.8299		
181.50	-0.215	223.8	-0.8299		
181.53	-0.215	223.8	-0.8299		
181.57	-0.215	223.7	-0.8299		
181.60	-0.215	223.7	-0.8299		
181.63	-0.214	223.7	-0.8299		
181.67	-0.213	223.7	-0.8299		
181.70	-0.212	223.7	-0.8291		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
181.73	-0.212	223.7	-0.8291			
181.78	-0.211	223.7	-0.8291			
181.82	-0.211	223.7	-0.8291			
181.83	-0.21	223.7	-0.8291			
181.87	-0.21	223.7	-0.8291			
181.90	-0.21	223.7	-0.8291			
181.93	-0.208	223.7	-0.8282			
181.97	-0.208	223.7	-0.8282			
182.00	-0.207	223.7	-0.8282			
182.03	-0.207	223.7	-0.8282			
182.07	-0.205	223.7	-0.8282			
182.10	-0.205	223.7	-0.8273			
182.13	-0.205	223.7	-0.8273			
182.17	-0.204	223.7	-0.8264			
182.20	-0.203	223.7	-0.8264			
182.23	-0.202	223.7	-0.8255			
182.27	-0.202	223.8	-0.8255			
182.30	-0.2	223.8	-0.8255			
182.33	-0.197	223.8	-0.8246			
182.37	-0.197	223.8	-0.8237			
182.40	-0.199	223.8	-0.8246			
182.43	-0.198	223.8	-0.8237			
182.47	-0.196	223.9	-0.8228			
182.50	-0.196	223.9	-0.822			
182.53	-0.193	223.9	-0.822			
182.57	-0.192	223.9	-0.8211			
182.60	-0.192	224	-0.8211			
182.63	-0.192	224	-0.8211			
182.67	-0.19	224	-0.8202			
182.70	-0.189	224	-0.8193			
182.73	-0.188	224.1	-0.8184			
182.77	-0.187	224.1	-0.8184			
182.80	-0.185	224.1	-0.8175			
182.83	-0.185	224.1	-0.8166			
182.87	-0.185	224.2	-0.8166			
182.90	-0.182	224.2	-0.8149			
182.93	-0.183	224.2	-0.8149			
182.97	-0.181	224.3	-0.8131			
183.00	-0.179	224.4	-0.8131			
183.03	-0.178	224.4	-0.8122			
183.07	-0.178	224.4	-0.8113			
183.10	-0.177	224.5	-0.8104			
183.13	-0.175	224.5	-0.8095			
183.17	-0.173	224.6	-0.8086			
183.20	-0.172	224.6	-0.8078			
183.25	-0.171	224.7	-0.8069			
183.27	-0.17	224.7	-0.806			
183.30	-0.168	224.8	-0.8051			
183.33	-0.166	224.8	-0.8051			
183.37	-0.165	224.8	-0.8042			
183.40	-0.165	224.9	-0.8033			
183.43	-0.165	224.9	-0.8024			
183.47	-0.162	225	-0.8007			
183.50	-0.161	225	-0.7998			
183.53	-0.16	225.1	-0.798			
183.57	-0.157	225.2	-0.798			
183.60	-0.156	225.2	-0.7971			
183.63	-0.156	225.3	-0.7962			
183.67	-0.155	225.3	-0.7944			
183.70	-0.152	225.4	-0.7927			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
183.73	-0.151	225.5	-0.7918		
183.77	-0.15	225.5	-0.79		
183.80	-0.146	225.6	-0.79		
183.83	-0.146	225.6	-0.7882		
183.87	-0.146	225.7	-0.7873		
183.90	-0.144	225.8	-0.7856		
183.93	-0.141	225.9	-0.7838		
183.97	-0.14	225.9	-0.7829		
184.00	-0.139	226	-0.7811		
184.03	-0.136	226.1	-0.7811		
184.07	-0.135	226.1	-0.7802		
184.10	-0.135	226.2	-0.7785		
184.13	-0.133	226.2	-0.7776		
184.17	-0.131	226.3	-0.7749		
184.20	-0.129	226.4	-0.774		
184.23	-0.128	226.5	-0.7722		
184.27	-0.125	226.6	-0.7722		
184.30	-0.123	226.6	-0.7705		
184.33	-0.123	226.7	-0.7687		
184.37	-0.122	226.8	-0.7669		
184.40	-0.119	226.9	-0.7643		
184.43	-0.118	227	-0.7634		
184.47	-0.116	227.1	-0.7607		
184.50	-0.112	227.2	-0.7607		
184.53	-0.112	227.2	-0.7589		
184.57	-0.112	227.2	-0.7572		
184.60	-0.11	227.4	-0.7554		
184.63	-0.107	227.5	-0.7527		
184.68	-0.105	227.6	-0.7509		
184.72	-0.105	227.7	-0.7501		
184.73	-0.101	227.8	-0.7474		
184.77	-0.1	227.9	-0.7447		
184.80	-0.098	228	-0.7421		
184.83	-0.095	228.1	-0.7421		
184.87	-0.094	228.1	-0.7403		
184.90	-0.094	228.2	-0.7385		
184.93	-0.092	228.3	-0.7359		
184.97	-0.089	228.4	-0.7332		
185.00	-0.088	228.5	-0.7314		
185.03	-0.085	228.7	-0.7288		
185.07	-0.082	228.8	-0.7288		
185.10	-0.08	228.8	-0.7261		
185.13	-0.08	228.9	-0.7234		
185.17	-0.08	229	-0.7225		
185.20	-0.076	229.1	-0.719		
185.23	-0.074	229.2	-0.7163		
185.27	-0.073	229.3	-0.7146		
185.30	-0.068	229.5	-0.7146		
185.33	-0.068	229.5	-0.711		
185.37	-0.068	229.6	-0.7101		
185.40	-0.066	229.7	-0.7066		
185.43	-0.062	229.9	-0.703		
185.47	-0.061	229.9	-0.7012		
185.50	-0.06	230.1	-0.6986		
185.53	-0.056	230.2	-0.6986		
185.57	-0.055	230.2	-0.6959		
185.60	-0.055	230.3	-0.6924		
185.63	-0.052	230.5	-0.6888		
185.67	-0.047	230.6	-0.6861		
185.70	-0.048	230.7	-0.6853		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
185.73	-0.045	230.8	-0.6808			
185.77	-0.041	231	-0.6808			
185.80	-0.041	231	-0.6782			
185.83	-0.041	231.1	-0.6755			
185.87	-0.039	231.2	-0.6728			
185.90	-0.035	231.4	-0.6693			
185.93	-0.033	231.5	-0.6666			
185.97	-0.032	231.6	-0.664			
186.00	-0.028	231.7	-0.664			
186.03	-0.027	231.7	-0.6604			
186.07	-0.027	231.8	-0.6577			
186.10	-0.025	232	-0.6542			
186.15	-0.02	232.1	-0.6506			
186.18	-0.02	232.2	-0.648			
186.20	-0.019	232.4	-0.6453			
186.23	-0.015	232.5	-0.6418			
186.27	-0.014	232.6	-0.6391			
186.30	-0.011	232.8	-0.6356			
186.33	-0.008	232.9	-0.6356			
186.37	-0.007	232.9	-0.6329			
186.40	-0.007	233.1	-0.6302			
186.43	-0.004	233.2	-0.6258			
186.47	0	233.4	-0.6222			
186.50	0.001	233.5	-0.6196			
186.53	0.003	233.6	-0.6151			
186.57	0.007	233.8	-0.6151			
186.60	0.008	233.8	-0.6116			
186.63	0.008	233.9	-0.6089			
186.67	0.01	234	-0.6054			
186.70	0.014	234.2	-0.6009			
186.73	0.015	234.3	-0.5983			
186.77	0.016	234.5	-0.5938			
186.80	0.021	234.6	-0.5938			
186.83	0.022	234.6	-0.5903			
186.87	0.022	234.7	-0.5867			
186.90	0.024	234.9	-0.5832			
186.93	0.028	235	-0.5787			
186.97	0.029	235.2	-0.5752			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
187.00	0.031	235.3	-0.5716			
187.03	0.035	235.5	-0.5716			
187.07	0.036	235.5	-0.5672			
187.10	0.036	235.6	-0.5637			
187.13	0.038	235.7	-0.5592			
187.17	0.042	235.9	-0.5548			
187.20	0.043	236.1	-0.5512			
187.23	0.045	236.2	-0.5468			
187.27	0.051	236.4	-0.5468			
187.30	0.05	236.4	-0.5423			
187.33	0.05	236.5	-0.5397			
187.37	0.052	236.6	-0.5352			
187.40	0.056	236.8	-0.5308			
187.43	0.057	236.9	-0.5273			
187.47	0.059	237.1	-0.5228			
187.50	0.063	237.3	-0.5228			
187.53	0.064	237.3	-0.5166			
187.58	0.065	237.5	-0.5104			
187.62	0.068	237.7	-0.5104			
187.63	0.071	237.7	-0.506			
187.67	0.071	237.8	-0.5024			
187.70	0.071	237.9	-0.4989			
187.73	0.075	238.1	-0.4944			
187.77	0.075	238.2	-0.4918			
187.80	0.078	238.4	-0.4855			
187.83	0.084	238.5	-0.4855			
187.87	0.085	238.5	-0.4793			
187.90	0.085	238.7	-0.4758			
187.93	0.085	238.8	-0.4713			
187.97	0.089	238.9	-0.4669			
188.00	0.09	239.1	-0.4633			
188.03	0.092	239.2	-0.4589			
188.07	0.095	239.4	-0.4589			
188.10	0.097	239.4	-0.4545			
188.13	0.097	239.5	-0.45			
188.17	0.099	239.6	-0.4456			
188.20	0.101	239.8	-0.4412			
188.23	0.104	239.9	-0.4376			
188.27	0.105	240	-0.4332			
188.30	0.108	240.2	-0.4332			
188.33	0.11	240.2	-0.4278			
188.37	0.11	240.3	-0.4234			
188.40	0.111	240.4	-0.4199			
188.43	0.114	240.6	-0.4154			
188.47	0.115	240.7	-0.411			
188.50	0.117	240.8	-0.4057			
188.53	0.121	241	-0.4057			
188.57	0.123	241	-0.4021			
188.60	0.123	241.1	-0.3977			
188.63	0.124	241.3	-0.3932			
188.67	0.128	241.4	-0.3879			
188.70	0.128	241.6	-0.3843			
188.73	0.13	241.7	-0.3799			
188.77	0.133	241.8	-0.3799			
188.80	0.133	241.8	-0.3755			
188.83	0.133	241.9	-0.3719			
188.87	0.134	242.1	-0.3675			
188.90	0.139	242.2	-0.3622			
188.93	0.14	242.4	-0.3586			
188.97	0.142	242.5	-0.3524			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
189.00	0.145	242.6	-0.3524		
189.05	0.145	242.7	-0.3453		
189.08	0.147	242.9	-0.3417		
189.10	0.148	243	-0.3417		
189.13	0.151	243	-0.3364		
189.17	0.151	243.1	-0.3329		
189.20	0.152	243.2	-0.3293		
189.23	0.154	243.4	-0.3249		
189.27	0.156	243.5	-0.3204		
189.30	0.157	243.6	-0.3169		
189.33	0.16	243.7	-0.3169		
189.37	0.161	243.7	-0.3124		
189.40	0.161	243.9	-0.3089		
189.43	0.163	244	-0.3045		
189.47	0.165	244.1	-0.3009		
189.50	0.166	244.2	-0.2965		
189.53	0.168	244.3	-0.2911		
189.57	0.17	244.5	-0.2911		
189.60	0.171	244.5	-0.2867		
189.63	0.171	244.6	-0.2832		
189.67	0.173	244.7	-0.2796		
189.70	0.175	244.9	-0.2752		
189.73	0.176	245	-0.2716		
189.77	0.177	245.1	-0.2681		
189.80	0.18	245.2	-0.2681		
189.83	0.182	245.2	-0.2636		
189.87	0.182	245.3	-0.2592		
189.90	0.181	245.5	-0.2565		
189.93	0.184	245.6	-0.253		
189.97	0.186	245.7	-0.2494		
190.00	0.186	245.8	-0.245		
190.03	0.189	245.9	-0.245		
190.07	0.19	245.9	-0.2414		
190.10	0.19	246.1	-0.2379		
190.13	0.191	246.2	-0.2352		
190.17	0.193	246.3	-0.2317		
190.20	0.194	246.4	-0.2272		
190.23	0.195	246.5	-0.2246		
190.27	0.197	246.6	-0.2246		
190.30	0.198	246.6	-0.221		
190.33	0.198	246.7	-0.2175		
190.37	0.199	246.8	-0.2148		
190.40	0.2	246.9	-0.2113		
190.43	0.202	247	-0.2077		
190.48	0.202	247.1	-0.205		
190.52	0.203	247.2	-0.2024		
190.53	0.205	247.3	-0.1997		
190.57	0.205	247.4	-0.1971		
190.60	0.207	247.5	-0.1971		
190.63	0.208	247.5	-0.1935		
190.67	0.208	247.6	-0.1908		
190.70	0.209	247.7	-0.1882		
190.73	0.21	247.8	-0.1855		
190.77	0.211	247.9	-0.1829		
190.80	0.212	248	-0.1802		
190.83	0.214	248.1	-0.1802		
190.87	0.214	248.1	-0.1775		
190.90	0.214	248.2	-0.1758		
190.93	0.215	248.2	-0.1731		
190.97	0.216	248.3	-0.1704		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
191.00	0.217	248.4	-0.1687			
191.03	0.218	248.5	-0.166			
191.07	0.219	248.6	-0.166			
191.10	0.22	248.6	-0.1633			
191.13	0.22	248.7	-0.1616			
191.17	0.22	248.8	-0.1589			
191.20	0.221	248.9	-0.1571			
191.23	0.222	248.9	-0.1544			
191.27	0.223	249	-0.1527			
191.30	0.223	249.1	-0.1527			
191.33	0.225	249.1	-0.1491			
191.37	0.225	249.2	-0.1473			
191.40	0.224	249.2	-0.1465			
191.43	0.225	249.3	-0.1447			
191.47	0.226	249.4	-0.1429			
191.50	0.226	249.4	-0.1411			
191.53	0.227	249.5	-0.1411			
191.57	0.23	249.5	-0.1394			
191.60	0.23	249.7	-0.1358			
191.63	0.228	249.7	-0.1349			
191.67	0.226	249.7	-0.1349			
191.70	0.228	249.8	-0.1331			
191.73	0.231	249.9	-0.1305			
191.77	0.231	250	-0.1305			
191.80	0.229	250	-0.1287			
191.83	0.229	250	-0.1287			
191.87	0.23	250.1	-0.1269			
191.90	0.231	250.2	-0.1252			
191.95	0.231	250.2	-0.1243			
191.98	0.234	250.3	-0.1225			
192.00	0.231	250.4	-0.1225			
192.03	0.231	250.4	-0.1216			
192.07	0.232	250.5	-0.1198			
192.10	0.233	250.5	-0.1198			
192.13	0.235	250.5	-0.1189			
192.17	0.235	250.6	-0.1172			
192.20	0.232	250.6	-0.1181			
192.23	0.231	250.7	-0.1172			
192.27	0.235	250.8	-0.1154			
192.30	0.232	250.8	-0.1154			
192.33	0.232	250.8	-0.1154			
192.37	0.232	250.8	-0.1145			
192.40	0.232	250.9	-0.1127			
192.43	0.234	251	-0.1118			
192.47	0.234	251	-0.1118			
192.50	0.233	251.1	-0.111			
192.53	0.233	251.1	-0.111			
192.57	0.232	251.2	-0.111			
192.60	0.234	251.2	-0.1101			
192.63	0.234	251.2	-0.1092			
192.67	0.233	251.2	-0.1092			
192.70	0.232	251.3	-0.1092			
192.73	0.235	251.3	-0.1083			
192.77	0.231	251.4	-0.1083			
192.80	0.23	251.4	-0.1083			
192.83	0.232	251.4	-0.1083			
192.87	0.232	251.5	-0.1074			
192.90	0.231	251.5	-0.1074			
192.93	0.231	251.5	-0.1074			
192.97	0.231	251.5	-0.1074			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
193.00	0.231	251.6	-0.1074			
193.03	0.23	251.6	-0.1074			
193.07	0.231	251.6	-0.1065			
193.10	0.231	251.7	-0.1056			
193.13	0.228	251.7	-0.1074			
193.17	0.228	251.7	-0.1074			
193.20	0.228	251.7	-0.1074			
193.23	0.228	251.8	-0.1065			
193.27	0.227	251.8	-0.1065			
193.30	0.229	251.8	-0.1065			
193.33	0.229	251.9	-0.1065			
193.37	0.225	251.8	-0.1083			
193.42	0.224	251.8	-0.1083			
193.45	0.224	251.9	-0.1083			
193.47	0.224	251.9	-0.1074			
193.50	0.226	252	-0.1065			
193.53	0.224	252	-0.1074			
193.57	0.222	252	-0.1083			
193.60	0.221	252	-0.1083			
193.63	0.221	252	-0.1083			
193.67	0.221	252	-0.1083			
193.70	0.221	252	-0.1083			
193.73	0.219	252	-0.1092			
193.77	0.218	252.1	-0.1101			
193.80	0.218	252.1	-0.1101			
193.83	0.217	252.1	-0.1101			
193.87	0.216	252.1	-0.1101			
193.90	0.216	252.1	-0.1101			
193.93	0.214	252.1	-0.111			
193.97	0.214	252.1	-0.111			
194.00	0.213	252.1	-0.1118			
194.03	0.212	252.1	-0.1118			
194.07	0.213	252.2	-0.1118			
194.10	0.208	252.2	-0.1118			
194.13	0.208	252.1	-0.1136			
194.17	0.208	252.1	-0.1136			
194.20	0.208	252.1	-0.1136			
194.23	0.207	252.2	-0.1145			
194.27	0.205	252.1	-0.1154			
194.30	0.204	252.1	-0.1154			
194.33	0.203	252.1	-0.1154			
194.37	0.203	252.1	-0.1154			
194.40	0.202	252.1	-0.1163			
194.43	0.201	252.1	-0.1172			
194.47	0.199	252.1	-0.1181			
194.50	0.198	252.1	-0.1189			
194.53	0.197	252.1	-0.1189			
194.57	0.195	252.1	-0.1189			
194.60	0.195	252.1	-0.1198			
194.63	0.195	252.1	-0.1207			
194.67	0.193	252.1	-0.1216			
194.70	0.191	252.1	-0.1225			
194.73	0.19	252.1	-0.1234			
194.77	0.188	252	-0.1234			
194.80	0.187	252	-0.1234			
194.85	0.187	252	-0.1252			
194.88	0.185	252	-0.1252			
194.90	0.183	252	-0.126			
194.93	0.183	252	-0.1269			
194.97	0.182	252	-0.1278			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
195.00	0.18	252	-0.1287			
195.03	0.179	252	-0.1296			
195.07	0.177	251.9	-0.1305			
195.10	0.177	251.9	-0.1305			
195.13	0.173	251.9	-0.1314			
195.17	0.173	251.9	-0.1331			
195.20	0.173	251.9	-0.1331			
195.23	0.171	251.8	-0.134			
195.27	0.169	251.8	-0.1349			
195.30	0.168	251.8	-0.1358			
195.33	0.167	251.8	-0.1358			
195.37	0.162	251.8	-0.1367			
195.40	0.162	251.7	-0.1394			
195.43	0.162	251.7	-0.1402			
195.47	0.161	251.7	-0.1411			
195.50	0.159	251.6	-0.142			
195.53	0.158	251.6	-0.1438			
195.57	0.155	251.5	-0.1438			
195.60	0.156	251.5	-0.1447			
195.63	0.156	251.5	-0.1456			
195.67	0.151	251.5	-0.1482			
195.70	0.149	251.4	-0.1491			
195.73	0.148	251.4	-0.15			
195.77	0.147	251.4	-0.1518			
195.80	0.144	251.3	-0.1518			
195.83	0.143	251.3	-0.1536			
195.87	0.143	251.3	-0.1544			
195.90	0.141	251.2	-0.1562			
195.93	0.138	251.2	-0.158			
195.97	0.137	251.1	-0.158			
196.00	0.135	251.1	-0.1607			
196.03	0.132	251	-0.1607			
196.07	0.131	251	-0.1624			
196.10	0.131	251	-0.1633			
196.13	0.129	250.9	-0.1651			
196.17	0.126	250.9	-0.1669			
196.20	0.125	250.8	-0.1687			
196.23	0.123	250.8	-0.1704			
196.27	0.12	250.7	-0.1704			
196.32	0.119	250.7	-0.1731			
196.35	0.118	250.6	-0.1749			
196.37	0.115	250.6	-0.1749			
196.40	0.112	250.6	-0.1775			
196.43	0.112	250.5	-0.1784			
196.47	0.112	250.5	-0.1793			
196.50	0.109	250.4	-0.182			
196.53	0.106	250.3	-0.1837			
196.57	0.105	250.3	-0.1855			
196.60	0.103	250.2	-0.1855			
196.63	0.1	250.2	-0.1873			
196.67	0.1	250.1	-0.19			
196.70	0.099	250.1	-0.1917			
196.73	0.096	250	-0.1944			
196.77	0.093	249.9	-0.1962			
196.80	0.092	249.9	-0.1988			
196.83	0.089	249.8	-0.1988			
196.87	0.086	249.8	-0.2006			
196.90	0.086	249.7	-0.2033			
196.93	0.086	249.6	-0.205			
196.97	0.083	249.5	-0.2068			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
197.00	0.081	249.5	-0.2095			
197.03	0.078	249.4	-0.2121			
197.07	0.076	249.3	-0.2121			
197.10	0.076	249.3	-0.2139			
197.13	0.076	249.2	-0.2157			
197.17	0.071	249.1	-0.221			
197.20	0.068	249	-0.2228			
197.23	0.066	248.9	-0.2246			
197.27	0.065	248.9	-0.2272			
197.30	0.061	248.8	-0.2272			
197.33	0.06	248.8	-0.2299			
197.37	0.06	248.7	-0.2317			
197.40	0.059	248.7	-0.2343			
197.43	0.055	248.5	-0.2379			
197.47	0.053	248.5	-0.2406			
197.50	0.051	248.4	-0.2432			
197.53	0.048	248.3	-0.2432			
197.57	0.045	248.3	-0.2459			
197.60	0.045	248.2	-0.2485			
197.63	0.044	248.1	-0.2512			
197.67	0.041	248	-0.2548			
197.70	0.039	247.9	-0.2574			
197.75	0.037	247.8	-0.2601			
197.78	0.036	247.7	-0.2619			
197.80	0.032	247.6	-0.2654			
197.83	0.033	247.6	-0.2672			
197.87	0.027	247.4	-0.2672			
197.90	0.025	247.4	-0.2725			
197.93	0.025	247.3	-0.2752			
197.97	0.024	247.2	-0.2778			
198.00	0.021	247.1	-0.2805			
198.03	0.019	247	-0.284			
198.07	0.016	246.9	-0.2867			
198.10	0.014	246.8	-0.2867			
198.13	0.011	246.8	-0.2903			
198.17	0.011	246.7	-0.2947			
198.20	0.01	246.6	-0.2982			
198.23	0.006	246.4	-0.3018			
198.27	0.004	246.4	-0.3045			
198.30	0.003	246.3	-0.308			
198.33	-0.001	246.1	-0.308			
198.37	-0.003	246.1	-0.3124			
198.40	-0.003	246	-0.3151			
198.43	-0.004	245.9	-0.3187			
198.47	-0.008	245.8	-0.3222			
198.50	-0.01	245.6	-0.3258			
198.53	-0.012	245.5	-0.3302			
198.57	-0.015	245.4	-0.3302			
198.60	-0.017	245.4	-0.3338			
198.63	-0.017	245.3	-0.3373			
198.67	-0.019	245.1	-0.3417			
198.70	-0.023	245	-0.3453			
198.73	-0.025	244.9	-0.3488			
198.77	-0.025	244.8	-0.3524			
198.80	-0.03	244.6	-0.3524			
198.83	-0.031	244.6	-0.3568			
198.87	-0.031	244.5	-0.3604			
198.90	-0.033	244.3	-0.3648			
198.93	-0.036	244.2	-0.3684			
198.97	-0.038	244.1	-0.3719			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
199.00	-0.04	244	-0.3772		
199.03	-0.044	243.8	-0.3772		
199.07	-0.046	243.8	-0.3817		
199.10	-0.046	243.7	-0.3843		
199.13	-0.046	243.6	-0.3888		
199.17	-0.05	243.4	-0.3932		
199.22	-0.053	243.3	-0.3968		
199.25	-0.053	243.2	-0.4003		
199.27	-0.056	243	-0.4048		
199.30	-0.059	242.9	-0.4083		
199.33	-0.059	242.8	-0.411		
199.37	-0.063	242.6	-0.411		
199.40	-0.065	242.6	-0.4163		
199.43	-0.065	242.5	-0.4207		
199.47	-0.067	242.4	-0.4252		
199.50	-0.07	242.2	-0.4296		
199.53	-0.072	242.1	-0.4341		
199.57	-0.073	242	-0.4376		
199.60	-0.077	241.8	-0.4376		
199.63	-0.078	241.8	-0.4438		
199.67	-0.078	241.7	-0.4474		
199.70	-0.08	241.5	-0.4518		
199.73	-0.083	241.4	-0.4571		
199.77	-0.084	241.2	-0.4607		
199.80	-0.086	241.1	-0.466		
199.83	-0.09	240.9	-0.466		
199.87	-0.091	240.9	-0.4704		
199.90	-0.091	240.8	-0.4749		
199.93	-0.093	240.6	-0.4802		
199.97	-0.096	240.5	-0.4847		
200.00	-0.098	240.3	-0.4891		
200.03	-0.099	240.2	-0.4935		
200.07	-0.103	240	-0.4935		
200.10	-0.103	240	-0.4989		
200.13	-0.103	239.9	-0.5024		
200.17	-0.106	239.8	-0.5077		
200.20	-0.109	239.6	-0.5131		
200.23	-0.11	239.5	-0.5175		
200.27	-0.112	239.3	-0.5228		
200.30	-0.114	239.2	-0.5228		
200.33	-0.116	239.2	-0.5273		
200.37	-0.116	239	-0.5317		
200.40	-0.117	238.9	-0.537		
200.43	-0.12	238.7	-0.5423		
200.47	-0.122	238.6	-0.5468		
200.50	-0.123	238.4	-0.5512		
200.53	-0.126	238.3	-0.5512		
200.57	-0.128	238.3	-0.5566		
200.60	-0.128	238.1	-0.561		
200.63	-0.129	238	-0.5654		
200.68	-0.133	237.7	-0.5708		
200.70	-0.133	237.7	-0.5743		
200.73	-0.134	237.6	-0.5779		
200.77	-0.136	237.4	-0.5823		
200.80	-0.138	237.3	-0.5876		
200.83	-0.139	237.1	-0.5921		
200.87	-0.142	236.9	-0.5921		
200.90	-0.144	236.8	-0.5965		
200.93	-0.144	236.8	-0.6009		
200.97	-0.145	236.6	-0.6054		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
201.00	-0.147	236.5	-0.6107		
201.03	-0.149	236.3	-0.6151		
201.07	-0.15	236.2	-0.6196		
201.10	-0.152	236	-0.6196		
201.13	-0.154	235.9	-0.624		
201.17	-0.154	235.9	-0.6284		
201.20	-0.155	235.7	-0.6329		
201.23	-0.157	235.6	-0.6364		
201.27	-0.159	235.4	-0.6409		
201.30	-0.16	235.3	-0.6453		
201.33	-0.162	235.1	-0.6453		
201.37	-0.164	235	-0.6506		
201.40	-0.164	235	-0.6551		
201.43	-0.165	234.8	-0.6586		
201.47	-0.167	234.7	-0.6631		
201.50	-0.169	234.5	-0.6675		
201.53	-0.169	234.4	-0.6711		
201.57	-0.171	234.3	-0.6711		
201.60	-0.173	234.3	-0.6755		
201.63	-0.173	234.1	-0.679		
201.67	-0.173	234	-0.6826		
201.70	-0.176	233.8	-0.687		
201.73	-0.177	233.7	-0.6915		
201.77	-0.178	233.6	-0.695		
201.80	-0.179	233.4	-0.695		
201.83	-0.182	233.4	-0.6986		
201.87	-0.182	233.3	-0.703		
201.90	-0.181	233.2	-0.7057		
201.93	-0.183	233	-0.7092		
201.97	-0.185	232.9	-0.7137		
202.00	-0.186	232.7	-0.7172		
202.03	-0.187	232.6	-0.7172		
202.07	-0.189	232.6	-0.7208		
202.12	-0.189	232.3	-0.7279		
202.15	-0.19	232.2	-0.7279		
202.17	-0.191	232.1	-0.7314		
202.20	-0.191	232.1	-0.7341		
202.23	-0.192	231.9	-0.7376		
202.27	-0.194	231.8	-0.7412		
202.30	-0.195	231.7	-0.7447		
202.33	-0.196	231.6	-0.7492		
202.37	-0.197	231.5	-0.7492		
202.40	-0.197	231.4	-0.7518		
202.43	-0.197	231.4	-0.7545		
202.47	-0.2	231.2	-0.758		
202.50	-0.2	231.1	-0.7607		
202.53	-0.201	231	-0.7634		
202.57	-0.201	230.9	-0.766		
202.60	-0.202	230.7	-0.766		
202.63	-0.204	230.6	-0.7696		
202.67	-0.204	230.6	-0.7722		
202.70	-0.205	230.5	-0.7749		
202.73	-0.205	230.4	-0.7776		
202.77	-0.206	230.3	-0.7802		
202.80	-0.207	230.2	-0.7829		
202.83	-0.207	230.1	-0.7829		
202.87	-0.209	230	-0.7847		
202.90	-0.209	230	-0.7882		
202.93	-0.209	229.9	-0.79		
202.97	-0.21	229.8	-0.7927		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
203.00	-0.21	229.7	-0.7944		
203.03	-0.212	229.5	-0.798		
203.07	-0.212	229.4	-0.798		
203.10	-0.212	229.4	-0.7998		
203.13	-0.212	229.4	-0.8015		
203.17	-0.213	229.3	-0.8042		
203.20	-0.214	229.2	-0.806		
203.23	-0.214	229.1	-0.8086		
203.27	-0.215	229	-0.8104		
203.30	-0.215	228.9	-0.8104		
203.33	-0.216	228.8	-0.8122		
203.37	-0.216	228.8	-0.814		
203.40	-0.216	228.7	-0.8157		
203.43	-0.217	228.6	-0.8175		
203.47	-0.217	228.5	-0.8193		
203.50	-0.217	228.4	-0.8211		
203.53	-0.218	228.3	-0.8211		
203.58	-0.218	228.3	-0.8237		
203.62	-0.218	228.2	-0.8255		
203.63	-0.219	228.1	-0.8255		
203.67	-0.219	228.1	-0.8273		
203.70	-0.219	228.1	-0.8282		
203.73	-0.219	228	-0.8299		
203.77	-0.219	227.9	-0.8308		
203.80	-0.219	227.9	-0.8326		
203.83	-0.22	227.8	-0.8335		
203.87	-0.219	227.7	-0.8335		
203.90	-0.22	227.7	-0.8344		
203.93	-0.22	227.7	-0.8362		
203.97	-0.22	227.6	-0.837		
204.00	-0.22	227.5	-0.8379		
204.03	-0.22	227.5	-0.8388		
204.07	-0.22	227.4	-0.8397		
204.10	-0.22	227.3	-0.8397		
204.13	-0.22	227.3	-0.8406		
204.17	-0.22	227.3	-0.8415		
204.20	-0.22	227.3	-0.8424		
204.23	-0.22	227.2	-0.8433		
204.27	-0.219	227.2	-0.8433		
204.30	-0.219	227.1	-0.8441		
204.33	-0.219	227.1	-0.8441		
204.37	-0.219	227	-0.845		
204.40	-0.219	227	-0.8459		
204.43	-0.219	227	-0.8459		
204.47	-0.218	227	-0.8459		
204.50	-0.218	226.9	-0.8468		
204.53	-0.218	226.9	-0.8468		
204.57	-0.218	226.9	-0.8468		
204.60	-0.218	226.9	-0.8477		
204.63	-0.218	226.9	-0.8477		
204.67	-0.218	226.8	-0.8477		
204.70	-0.217	226.8	-0.8486		
204.73	-0.216	226.8	-0.8486		
204.77	-0.216	226.8	-0.8486		
204.80	-0.215	226.7	-0.8486		
204.83	-0.215	226.7	-0.8486		
204.87	-0.215	226.7	-0.8486		
204.90	-0.215	226.7	-0.8486		
204.93	-0.214	226.7	-0.8486		
204.97	-0.213	226.7	-0.8486		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
205.02	-0.213	226.7	-0.8486		
205.05	-0.213	226.7	-0.8486		
205.07	-0.212	226.7	-0.8486		
205.10	-0.211	226.7	-0.8477		
205.13	-0.211	226.6	-0.8477		
205.17	-0.21	226.7	-0.8477		
205.20	-0.21	226.7	-0.8477		
205.23	-0.21	226.6	-0.8477		
205.27	-0.209	226.6	-0.8477		
205.30	-0.208	226.7	-0.8468		
205.33	-0.207	226.7	-0.8468		
205.37	-0.206	226.7	-0.8468		
205.40	-0.205	226.7	-0.8459		
205.43	-0.205	226.7	-0.8459		
205.47	-0.204	226.7	-0.845		
205.50	-0.203	226.7	-0.845		
205.53	-0.203	226.7	-0.845		
205.57	-0.202	226.7	-0.8441		
205.60	-0.201	226.7	-0.8441		
205.63	-0.2	226.8	-0.8433		
205.67	-0.2	226.8	-0.8433		
205.70	-0.199	226.8	-0.8433		
205.73	-0.198	226.8	-0.8424		
205.77	-0.197	226.8	-0.8415		
205.80	-0.196	226.8	-0.8415		
205.83	-0.195	226.9	-0.8415		
205.87	-0.194	226.9	-0.8406		
205.90	-0.194	226.9	-0.8406		
205.93	-0.193	226.9	-0.8397		
205.97	-0.191	227	-0.8388		
206.00	-0.19	227	-0.8379		
206.03	-0.19	227	-0.8379		
206.07	-0.188	227.1	-0.8379		
206.10	-0.186	227.1	-0.8362		
206.13	-0.186	227.1	-0.8362		
206.17	-0.185	227.1	-0.8353		
206.20	-0.184	227.2	-0.8344		
206.23	-0.183	227.2	-0.8335		
206.27	-0.182	227.2	-0.8326		
206.30	-0.181	227.3	-0.8326		
206.33	-0.179	227.3	-0.8317		
206.37	-0.179	227.3	-0.8308		
206.40	-0.178	227.4	-0.8299		
206.43	-0.176	227.5	-0.8291		
206.48	-0.175	227.5	-0.8282		
206.52	-0.174	227.5	-0.8273		
206.53	-0.173	227.6	-0.8264		
206.57	-0.171	227.7	-0.8255		
206.60	-0.17	227.7	-0.8246		
206.63	-0.168	227.8	-0.8246		
206.67	-0.167	227.8	-0.8228		
206.70	-0.167	227.8	-0.8228		
206.73	-0.165	227.9	-0.8211		
206.77	-0.163	227.9	-0.8202		
206.80	-0.162	228	-0.8193		
206.83	-0.161	228	-0.8175		
206.87	-0.159	228.1	-0.8175		
206.90	-0.157	228.2	-0.8166		
206.93	-0.157	228.2	-0.8149		
206.97	-0.156	228.2	-0.814		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
207.00	-0.154	228.3	-0.8122		
207.03	-0.152	228.4	-0.8113		
207.07	-0.151	228.5	-0.8095		
207.10	-0.148	228.6	-0.8095		
207.13	-0.147	228.7	-0.8086		
207.17	-0.147	228.7	-0.8069		
207.20	-0.146	228.7	-0.806		
207.23	-0.144	228.8	-0.8042		
207.27	-0.141	228.9	-0.8024		
207.30	-0.14	229	-0.8007		
207.33	-0.138	229.1	-0.8007		
207.37	-0.136	229.1	-0.7998		
207.40	-0.136	229.1	-0.798		
207.43	-0.135	229.2	-0.7971		
207.47	-0.133	229.3	-0.7944		
207.50	-0.131	229.4	-0.7936		
207.53	-0.129	229.5	-0.7909		
207.57	-0.127	229.6	-0.7909		
207.60	-0.125	229.7	-0.7891		
207.63	-0.125	229.7	-0.7873		
207.67	-0.123	229.8	-0.7864		
207.70	-0.121	229.9	-0.7838		
207.73	-0.119	230	-0.782		
207.77	-0.118	230	-0.7811		
207.80	-0.116	230.1	-0.7811		
207.83	-0.113	230.2	-0.7785		
207.87	-0.113	230.2	-0.7767		
207.92	-0.11	230.4	-0.7749		
207.95	-0.108	230.5	-0.7731		
207.97	-0.108	230.5	-0.7714		
208.00	-0.107	230.6	-0.7696		
208.03	-0.104	230.7	-0.7669		
208.07	-0.102	230.8	-0.7651		
208.10	-0.1	230.9	-0.7634		
208.13	-0.097	231.1	-0.7634		
208.17	-0.095	231.2	-0.7607		
208.20	-0.095	231.2	-0.758		
208.23	-0.093	231.3	-0.7563		
208.27	-0.091	231.4	-0.7545		
208.30	-0.089	231.5	-0.7518		
208.33	-0.087	231.6	-0.7492		
208.37	-0.084	231.7	-0.7492		
208.40	-0.083	231.8	-0.7456		
208.43	-0.083	231.8	-0.7438		
208.47	-0.081	231.9	-0.7421		
208.50	-0.079	232.1	-0.7394		
208.53	-0.075	232.2	-0.7367		
208.57	-0.074	232.3	-0.7332		
208.60	-0.072	232.4	-0.7332		
208.63	-0.069	232.5	-0.7314		
208.67	-0.069	232.5	-0.7288		
208.70	-0.067	232.6	-0.7261		
208.73	-0.064	232.8	-0.7234		
208.77	-0.062	232.9	-0.7208		
208.80	-0.061	233	-0.7181		
208.83	-0.058	233.2	-0.7181		
208.87	-0.056	233.3	-0.7154		
208.90	-0.056	233.3	-0.7128		
208.93	-0.054	233.4	-0.7101		
208.97	-0.051	233.5	-0.7066		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
209.00	-0.049	233.7	-0.7039		
209.03	-0.047	233.8	-0.7012		
209.07	-0.045	233.9	-0.7012		
209.10	-0.042	234.1	-0.6986		
209.13	-0.042	234.1	-0.695		
209.17	-0.04	234.2	-0.6924		
209.20	-0.038	234.3	-0.6888		
209.23	-0.035	234.5	-0.6861		
209.27	-0.034	234.6	-0.6835		
209.30	-0.031	234.7	-0.6835		
209.33	-0.028	234.9	-0.679		
209.38	-0.027	235	-0.6746		
209.42	-0.024	235.1	-0.6746		
209.43	-0.022	235.2	-0.6711		
209.47	-0.022	235.2	-0.6684		
209.50	-0.02	235.4	-0.6657		
209.53	-0.018	235.5	-0.6613		
209.57	-0.015	235.7	-0.6586		
209.60	-0.013	235.8	-0.6551		
209.63	-0.011	235.9	-0.6551		
209.67	-0.008	236.1	-0.6515		
209.70	-0.008	236.1	-0.648		
209.73	-0.006	236.2	-0.6444		
209.77	-0.004	236.4	-0.6409		
209.80	0	236.5	-0.6373		
209.83	0.001	236.7	-0.6347		
209.87	0.003	236.8	-0.6347		
209.90	0.007	237	-0.632		
209.93	0.007	237	-0.6276		
209.97	0.008	237.1	-0.6249		
210.00	0.011	237.3	-0.6205		
210.03	0.014	237.4	-0.6169		
210.07	0.015	237.5	-0.6134		
210.10	0.018	237.7	-0.6134		
210.13	0.02	237.8	-0.6098		
210.17	0.02	237.8	-0.6054		
210.20	0.023	238	-0.6018		
210.23	0.024	238.1	-0.5983		
210.27	0.028	238.3	-0.5938		
210.30	0.029	238.4	-0.5903		
210.33	0.032	238.6	-0.5903		
210.37	0.035	238.7	-0.5858		
210.40	0.035	238.7	-0.5823		
210.43	0.036	238.9	-0.5787		
210.47	0.039	239	-0.5743		
210.50	0.042	239.2	-0.5708		
210.53	0.043	239.3	-0.5663		
210.57	0.046	239.5	-0.5663		
210.60	0.049	239.6	-0.5619		
210.63	0.049	239.6	-0.5574		
210.67	0.051	239.7	-0.5539		
210.70	0.054	239.9	-0.5494		
210.73	0.055	240	-0.5459		
210.77	0.059	240.2	-0.5406		
210.80	0.06	240.3	-0.5406		
210.85	0.061	240.4	-0.5335		
210.87	0.063	240.6	-0.5299		
210.90	0.066	240.7	-0.5299		
210.93	0.07	240.9	-0.5246		
210.97	0.07	240.9	-0.5202		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
211.00	0.069	241	-0.5166			
211.03	0.072	241.2	-0.5122			
211.07	0.075	241.3	-0.5077			
211.10	0.077	241.5	-0.5033			
211.13	0.079	241.6	-0.5033			
211.17	0.082	241.8	-0.4989			
211.20	0.082	241.8	-0.4944			
211.23	0.085	241.9	-0.4882			
211.27	0.086	242.1	-0.4847			
211.30	0.089	242.2	-0.4802			
211.33	0.089	242.3	-0.4767			
211.37	0.092	242.5	-0.4767			
211.40	0.096	242.7	-0.4722			
211.43	0.096	242.7	-0.4669			
211.47	0.096	242.8	-0.4633			
211.50	0.099	242.9	-0.4589			
211.53	0.102	243.1	-0.4536			
211.57	0.103	243.2	-0.45			
211.60	0.106	243.4	-0.45			
211.63	0.108	243.5	-0.4447			
211.67	0.108	243.5	-0.4403			
211.70	0.109	243.6	-0.4367			
211.73	0.112	243.8	-0.4305			
211.77	0.117	244	-0.4243			
211.80	0.116	244.1	-0.4216			
211.83	0.116	244.2	-0.4216			
211.87	0.12	244.3	-0.419			
211.90	0.12	244.3	-0.4136			
211.93	0.122	244.5	-0.4083			
211.97	0.125	244.7	-0.4039			
212.00	0.127	244.8	-0.3994			
212.03	0.129	244.9	-0.395			
212.07	0.131	245.1	-0.395			
212.10	0.133	245.2	-0.3906			
212.13	0.133	245.2	-0.3861			
212.17	0.134	245.3	-0.3817			
212.20	0.137	245.5	-0.3772			
212.23	0.138	245.6	-0.3737			
212.28	0.14	245.8	-0.3693			
212.32	0.14	245.9	-0.3657			
212.33	0.143	246	-0.3613			
212.37	0.146	246.1	-0.3568			
212.40	0.147	246.3	-0.3524			
212.43	0.149	246.4	-0.3524			
212.47	0.149	246.4	-0.3471			
212.50	0.15	246.5	-0.3435			
212.53	0.153	246.7	-0.3391			
212.57	0.155	246.8	-0.3346			
212.60	0.156	246.9	-0.3311			
212.63	0.157	247.1	-0.3267			
212.67	0.162	247.2	-0.3267			
212.70	0.162	247.2	-0.3196			
212.73	0.16	247.3	-0.3178			
212.77	0.162	247.4	-0.3142			
212.80	0.165	247.6	-0.3098			
212.83	0.166	247.7	-0.3053			
212.87	0.168	247.8	-0.3009			
212.90	0.17	247.9	-0.3009			
212.93	0.17	247.9	-0.2974			
212.97	0.171	248	-0.2929			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
213.00	0.173	248.2	-0.2885			
213.03	0.175	248.3	-0.284			
213.07	0.176	248.4	-0.2805			
213.10	0.18	248.6	-0.2743			
213.13	0.179	248.7	-0.2743			
213.17	0.179	248.7	-0.2725			
213.20	0.18	248.8	-0.2681			
213.23	0.183	248.9	-0.2645			
213.27	0.184	249	-0.261			
213.30	0.185	249.1	-0.2574			
213.33	0.187	249.2	-0.2539			
213.37	0.189	249.3	-0.2539			
213.40	0.189	249.3	-0.2494			
213.43	0.19	249.4	-0.2468			
213.47	0.191	249.5	-0.2414			
213.50	0.195	249.7	-0.237			
213.53	0.193	249.8	-0.2352			
213.57	0.194	249.9	-0.2326			
213.60	0.197	250	-0.2326			
213.63	0.197	250	-0.229			
213.67	0.197	250.1	-0.2263			
213.70	0.199	250.2	-0.2228			
213.75	0.2	250.3	-0.2192			
213.78	0.201	250.4	-0.2166			
213.80	0.203	250.5	-0.2139			
213.83	0.203	250.6	-0.2104			
213.87	0.205	250.7	-0.2077			
213.90	0.206	250.8	-0.205			
213.93	0.207	250.9	-0.205			
213.97	0.207	250.9	-0.2015			
214.00	0.21	251.1	-0.1979			
214.03	0.209	251.1	-0.1962			
214.07	0.209	251.2	-0.1935			
214.10	0.211	251.3	-0.19			
214.13	0.213	251.4	-0.1873			
214.17	0.215	251.5	-0.1873			
214.20	0.215	251.5	-0.1837			
214.23	0.214	251.6	-0.182			
214.27	0.214	251.7	-0.1802			
214.30	0.216	251.8	-0.1784			
214.33	0.217	251.9	-0.174			
214.37	0.22	252	-0.1713			
214.40	0.22	252.1	-0.1713			
214.43	0.22	252.1	-0.1695			
214.47	0.218	252.1	-0.1687			
214.50	0.219	252.2	-0.1669			
214.53	0.221	252.3	-0.1642			
214.57	0.222	252.4	-0.1624			
214.60	0.222	252.5	-0.1607			
214.63	0.223	252.6	-0.1607			
214.67	0.223	252.6	-0.158			
214.70	0.224	252.6	-0.1562			
214.73	0.225	252.7	-0.1544			
214.77	0.225	252.8	-0.1527			
214.80	0.226	252.9	-0.1509			
214.83	0.227	252.9	-0.1482			
214.87	0.229	253	-0.1482			
214.90	0.229	253	-0.1456			
214.93	0.227	253.1	-0.1456			
214.97	0.227	253.1	-0.1438			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
215.00	0.229	253.3	-0.142			
215.03	0.229	253.3	-0.1402			
215.07	0.229	253.4	-0.1394			
215.10	0.23	253.5	-0.1394			
215.13	0.23	253.5	-0.1376			
215.18	0.231	253.6	-0.1349			
215.22	0.231	253.7	-0.1349			
215.23	0.231	253.7	-0.1331			
215.27	0.231	253.7	-0.1323			
215.30	0.232	253.8	-0.1314			
215.33	0.232	253.9	-0.1305			
215.37	0.233	254	-0.1287			
215.40	0.233	254	-0.1269			
215.43	0.233	254.1	-0.1269			
215.47	0.233	254.1	-0.1269			
215.50	0.232	254.1	-0.126			
215.53	0.233	254.2	-0.1252			
215.57	0.233	254.3	-0.1243			
215.60	0.233	254.3	-0.1234			
215.63	0.233	254.4	-0.1225			
215.67	0.233	254.4	-0.1225			
215.70	0.233	254.4	-0.1216			
215.73	0.233	254.5	-0.1207			
215.77	0.233	254.5	-0.1189			
215.80	0.235	254.6	-0.1181			
215.83	0.233	254.6	-0.1189			
215.87	0.234	254.7	-0.1181			
215.90	0.233	254.7	-0.1181			
215.93	0.233	254.7	-0.1181			
215.97	0.232	254.7	-0.1172			
216.00	0.232	254.8	-0.1181			
216.03	0.23	254.8	-0.1181			
216.07	0.231	254.9	-0.1163			
216.10	0.234	254.9	-0.1154			
216.13	0.234	255	-0.1154			
216.17	0.234	255	-0.1154			
216.20	0.232	255	-0.1154			
216.23	0.23	255	-0.1154			
216.27	0.233	255.1	-0.1145			
216.30	0.229	255.1	-0.1154			
216.33	0.229	255.1	-0.1154			
216.37	0.229	255.2	-0.1154			
216.40	0.229	255.2	-0.1145			
216.43	0.23	255.2	-0.1145			
216.47	0.23	255.2	-0.1145			
216.50	0.229	255.3	-0.1145			
216.53	0.229	255.3	-0.1136			
216.57	0.227	255.3	-0.1145			
216.60	0.227	255.3	-0.1145			
216.65	0.226	255.4	-0.1145			
216.68	0.229	255.4	-0.1136			
216.70	0.225	255.4	-0.1136			
216.73	0.224	255.4	-0.1154			
216.77	0.224	255.4	-0.1154			
216.80	0.225	255.5	-0.1145			
216.83	0.224	255.5	-0.1154			
216.87	0.223	255.5	-0.1145			
216.90	0.224	255.5	-0.1154			
216.93	0.221	255.5	-0.1154			
216.97	0.22	255.5	-0.1163			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
217.00	0.22	255.6	-0.1154		
217.03	0.222	255.6	-0.1154		
217.07	0.219	255.6	-0.1172		
217.10	0.218	255.6	-0.1172		
217.13	0.217	255.6	-0.1172		
217.17	0.218	255.7	-0.1172		
217.20	0.215	255.7	-0.1172		
217.23	0.215	255.6	-0.1181		
217.27	0.215	255.6	-0.1181		
217.30	0.214	255.7	-0.1189		
217.33	0.213	255.7	-0.1189		
217.37	0.212	255.7	-0.1189		
217.40	0.212	255.7	-0.1189		
217.43	0.208	255.7	-0.1198		
217.47	0.208	255.7	-0.1207		
217.50	0.209	255.7	-0.1207		
217.53	0.211	255.7	-0.1198		
217.57	0.206	255.7	-0.1225		
217.60	0.205	255.7	-0.1225		
217.63	0.204	255.7	-0.1225		
217.67	0.204	255.7	-0.1225		
217.70	0.204	255.7	-0.1234		
217.73	0.203	255.7	-0.1234		
217.77	0.201	255.7	-0.1243		
217.80	0.199	255.7	-0.126		
217.83	0.196	255.6	-0.1278		
217.87	0.198	255.7	-0.1278		
217.90	0.195	255.7	-0.126		
217.93	0.195	255.6	-0.1278		
217.97	0.193	255.6	-0.1287		
218.00	0.193	255.6	-0.1296		
218.03	0.192	255.6	-0.1296		
218.08	0.19	255.6	-0.1305		
218.12	0.191	255.6	-0.1305		
218.13	0.186	255.6	-0.1323		
218.17	0.187	255.6	-0.1323		
218.20	0.185	255.6	-0.1323		
218.23	0.184	255.6	-0.1331		
218.27	0.184	255.5	-0.134		
218.30	0.184	255.5	-0.1349		
218.33	0.178	255.5	-0.1376		
218.37	0.178	255.5	-0.1376		
218.40	0.177	255.4	-0.1385		
218.43	0.176	255.4	-0.1385		
218.47	0.176	255.4	-0.1394		
218.50	0.176	255.4	-0.1394		
218.53	0.171	255.3	-0.1429		
218.57	0.17	255.3	-0.1429		
218.60	0.169	255.3	-0.1438		
218.63	0.168	255.3	-0.1447		
218.67	0.165	255.2	-0.1447		
218.70	0.165	255.2	-0.1465		
218.73	0.165	255.2	-0.1465		
218.77	0.163	255.2	-0.1482		
218.80	0.161	255.1	-0.1491		
218.83	0.159	255.1	-0.1491		
218.87	0.158	255.1	-0.1518		
218.90	0.154	255	-0.1518		
218.93	0.154	255	-0.1536		
218.97	0.154	255	-0.1536		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
219.00	0.152	255	-0.1553		
219.03	0.149	254.9	-0.1571		
219.07	0.148	254.9	-0.158		
219.10	0.147	254.8	-0.1598		
219.13	0.144	254.8	-0.1598		
219.17	0.144	254.8	-0.1616		
219.20	0.144	254.8	-0.1624		
219.23	0.139	254.7	-0.1651		
219.27	0.137	254.6	-0.166		
219.30	0.137	254.6	-0.1669		
219.33	0.135	254.6	-0.1678		
219.37	0.135	254.5	-0.1678		
219.40	0.129	254.5	-0.1695		
219.43	0.129	254.4	-0.1722		
219.47	0.129	254.4	-0.1731		
219.50	0.127	254.4	-0.1749		
219.55	0.126	254.3	-0.1758		
219.58	0.125	254.3	-0.1775		
219.60	0.119	254.2	-0.1802		
219.63	0.119	254.1	-0.1811		
219.67	0.118	254.1	-0.1829		
219.70	0.115	254	-0.1829		
219.73	0.114	254	-0.1846		
219.77	0.114	254	-0.1855		
219.80	0.112	253.9	-0.1873		
219.83	0.108	253.8	-0.19		
219.87	0.108	253.8	-0.1917		
219.90	0.105	253.7	-0.1944		
219.93	0.099	253.6	-0.1944		
219.97	0.1	253.6	-0.1979		
220.00	0.1	253.5	-0.1988		
220.03	0.099	253.5	-0.2006		
220.07	0.097	253.4	-0.2024		
220.10	0.094	253.3	-0.2042		
220.13	0.093	253.3	-0.2068		
220.17	0.089	253.1	-0.2068		
220.20	0.087	253.1	-0.2095		
220.23	0.087	253.1	-0.2121		
220.27	0.083	253	-0.2148		
220.30	0.082	252.9	-0.2166		
220.33	0.08	252.8	-0.2184		
220.37	0.081	252.8	-0.2192		
220.40	0.076	252.7	-0.2192		
220.43	0.072	252.7	-0.2219		
220.47	0.072	252.6	-0.2263		
220.50	0.072	252.5	-0.2281		
220.53	0.069	252.4	-0.2308		
220.57	0.067	252.3	-0.2334		
220.60	0.065	252.2	-0.2361		
220.63	0.061	252.1	-0.2361		
220.67	0.06	252.1	-0.2388		
220.70	0.06	252.1	-0.2414		
220.73	0.058	252	-0.2441		
220.77	0.055	251.9	-0.2468		
220.80	0.055	251.8	-0.2494		
220.83	0.05	251.7	-0.2539		
220.87	0.047	251.6	-0.2539		
220.90	0.046	251.6	-0.2565		
220.93	0.046	251.5	-0.2583		
220.97	0.044	251.4	-0.261		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
221.02	0.04	251.3	-0.2645		
221.05	0.04	251.2	-0.2663		
221.07	0.039	251.1	-0.269		
221.10	0.034	251	-0.2716		
221.13	0.033	250.9	-0.2743		
221.17	0.032	250.8	-0.2778		
221.20	0.027	250.7	-0.2778		
221.23	0.025	250.7	-0.2814		
221.27	0.025	250.6	-0.284		
221.30	0.025	250.5	-0.2867		
221.33	0.021	250.4	-0.2903		
221.37	0.019	250.3	-0.2938		
221.40	0.017	250.2	-0.2982		
221.43	0.013	250	-0.2982		
221.47	0.012	250	-0.3018		
221.50	0.012	250	-0.3045		
221.53	0.01	249.9	-0.308		
221.57	0.006	249.7	-0.3116		
221.60	0.004	249.6	-0.3151		
221.63	0.002	249.5	-0.3178		
221.67	-0.001	249.3	-0.3178		
221.70	-0.002	249.3	-0.3213		
221.73	-0.002	249.3	-0.3249		
221.77	-0.004	249.1	-0.3293		
221.80	-0.009	249	-0.3329		
221.83	-0.009	248.9	-0.3355		
221.87	-0.011	248.8	-0.34		
221.90	-0.015	248.6	-0.34		
221.93	-0.017	248.6	-0.3444		
221.97	-0.017	248.5	-0.348		
222.00	-0.019	248.4	-0.3524		
222.03	-0.023	248.2	-0.3559		
222.07	-0.025	248.1	-0.3595		
222.10	-0.026	248	-0.363		
222.13	-0.029	247.9	-0.363		
222.17	-0.03	247.9	-0.3675		
222.20	-0.03	247.8	-0.3701		
222.23	-0.033	247.6	-0.3755		
222.27	-0.037	247.5	-0.3799		
222.30	-0.038	247.3	-0.3835		
222.33	-0.04	247.2	-0.3879		
222.37	-0.044	247.1	-0.3879		
222.40	-0.045	247.1	-0.3923		
222.45	-0.046	246.8	-0.3994		
222.48	-0.049	246.7	-0.3994		
222.50	-0.051	246.7	-0.4039		
222.53	-0.051	246.6	-0.4065		
222.57	-0.053	246.4	-0.4119		
222.60	-0.056	246.3	-0.4154		
222.63	-0.058	246.2	-0.419		
222.67	-0.06	246	-0.4234		
222.70	-0.063	245.9	-0.4234		
222.73	-0.065	245.9	-0.4287		
222.77	-0.065	245.7	-0.4332		
222.80	-0.067	245.6	-0.4376		
222.83	-0.07	245.4	-0.442		
222.87	-0.071	245.3	-0.4465		
222.90	-0.073	245.1	-0.4509		
222.93	-0.077	245	-0.4509		
222.97	-0.078	245	-0.4571		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
223.00	-0.078	244.8	-0.4607		
223.03	-0.08	244.7	-0.4651		
223.07	-0.084	244.5	-0.4704		
223.10	-0.084	244.4	-0.474		
223.13	-0.086	244.2	-0.4784		
223.17	-0.09	244	-0.4784		
223.20	-0.091	244	-0.4847		
223.23	-0.091	243.9	-0.4882		
223.27	-0.092	243.8	-0.4935		
223.30	-0.097	243.6	-0.4989		
223.33	-0.097	243.5	-0.5033		
223.37	-0.1	243.3	-0.5077		
223.40	-0.103	243.1	-0.5077		
223.43	-0.103	243.1	-0.5122		
223.47	-0.103	243	-0.5175		
223.50	-0.106	242.8	-0.5237		
223.53	-0.109	242.7	-0.529		
223.57	-0.11	242.5	-0.5335		
223.60	-0.111	242.4	-0.5379		
223.63	-0.115	242.2	-0.5379		
223.67	-0.116	242.2	-0.5423		
223.70	-0.116	242.1	-0.5477		
223.73	-0.117	241.9	-0.5521		
223.77	-0.121	241.8	-0.5574		
223.80	-0.121	241.7	-0.561		
223.83	-0.123	241.5	-0.5663		
223.87	-0.128	241.3	-0.5663		
223.92	-0.128	241.1	-0.577		
223.95	-0.129	241	-0.5805		
223.97	-0.131	240.8	-0.5805		
224.00	-0.133	240.8	-0.5858		
224.03	-0.133	240.7	-0.5903		
224.07	-0.134	240.6	-0.5938		
224.10	-0.136	240.4	-0.5992		
224.13	-0.139	240.3	-0.6036		
224.17	-0.139	240.1	-0.6071		
224.20	-0.142	240	-0.6071		
224.23	-0.144	240	-0.6125		
224.27	-0.144	239.8	-0.6178		
224.30	-0.145	239.7	-0.6222		
224.33	-0.147	239.5	-0.6267		
224.37	-0.149	239.4	-0.6311		
224.40	-0.15	239.2	-0.6347		
224.43	-0.152	239	-0.6347		
224.47	-0.154	239	-0.64		
224.50	-0.154	238.9	-0.6444		
224.53	-0.155	238.7	-0.6489		
224.57	-0.158	238.6	-0.6542		
224.60	-0.159	238.4	-0.6577		
224.63	-0.16	238.3	-0.6622		
224.67	-0.163	238.1	-0.6622		
224.70	-0.163	238.1	-0.6666		
224.73	-0.163	238	-0.6711		
224.77	-0.165	237.9	-0.6755		
224.80	-0.167	237.7	-0.6799		
224.83	-0.168	237.6	-0.6844		
224.87	-0.169	237.4	-0.6888		
224.90	-0.172	237.2	-0.6888		
224.93	-0.173	237.2	-0.6932		
224.97	-0.173	237.1	-0.6968		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
225.00	-0.174	236.9	-0.7012			
225.03	-0.176	236.8	-0.7048			
225.07	-0.177	236.6	-0.7083			
225.10	-0.178	236.5	-0.7128			
225.13	-0.18	236.3	-0.7128			
225.17	-0.181	236.3	-0.7163			
225.20	-0.181	236.2	-0.7208			
225.23	-0.182	236.1	-0.7243			
225.27	-0.184	235.9	-0.7288			
225.30	-0.185	235.8	-0.7323			
225.35	-0.186	235.6	-0.735			
225.38	-0.187	235.5	-0.7385			
225.40	-0.187	235.4	-0.7412			
225.43	-0.188	235.2	-0.7456			
225.47	-0.192	235.1	-0.7456			
225.50	-0.191	235.1	-0.7501			
225.53	-0.191	235	-0.7527			
225.57	-0.192	234.8	-0.7572			
225.60	-0.194	234.7	-0.7607			
225.63	-0.195	234.6	-0.7634			
225.67	-0.196	234.4	-0.766			
225.70	-0.197	234.3	-0.766			
225.73	-0.197	234.3	-0.7696			
225.77	-0.197	234.2	-0.7722			
225.80	-0.199	234.1	-0.7758			
225.83	-0.2	233.9	-0.7785			
225.87	-0.201	233.8	-0.7811			
225.90	-0.202	233.7	-0.7838			
225.93	-0.203	233.6	-0.7838			
225.97	-0.204	233.6	-0.7873			
226.00	-0.204	233.5	-0.79			
226.03	-0.204	233.4	-0.7927			
226.07	-0.205	233.2	-0.7953			
226.10	-0.206	233.1	-0.798			
226.13	-0.207	233	-0.8007			
226.17	-0.208	232.9	-0.8007			
226.20	-0.209	232.9	-0.8033			
226.23	-0.209	232.8	-0.806			
226.27	-0.209	232.7	-0.8078			
226.30	-0.21	232.6	-0.8104			
226.33	-0.211	232.4	-0.8131			
226.37	-0.211	232.3	-0.8157			
226.40	-0.212	232.2	-0.8157			
226.43	-0.213	232.2	-0.8175			
226.47	-0.213	232.1	-0.8202			
226.50	-0.213	232	-0.822			
226.53	-0.213	231.9	-0.8246			
226.57	-0.215	231.8	-0.8264			
226.60	-0.214	231.7	-0.8282			
226.63	-0.215	231.7	-0.8282			
226.67	-0.216	231.7	-0.8299			
226.70	-0.216	231.6	-0.8317			
226.73	-0.216	231.5	-0.8335			
226.77	-0.216	231.4	-0.8353			
226.82	-0.217	231.3	-0.837			
226.85	-0.217	231.3	-0.8388			
226.87	-0.218	231.2	-0.8397			
226.90	-0.218	231.1	-0.8415			
226.93	-0.218	231	-0.8433			
226.97	-0.218	230.9	-0.8433			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
227.00	-0.219	230.9	-0.8441		
227.03	-0.219	230.9	-0.8459		
227.07	-0.219	230.8	-0.8468		
227.10	-0.219	230.7	-0.8486		
227.13	-0.219	230.7	-0.8495		
227.17	-0.219	230.6	-0.8512		
227.20	-0.22	230.5	-0.8512		
227.23	-0.22	230.5	-0.8521		
227.27	-0.22	230.5	-0.853		
227.30	-0.22	230.4	-0.8539		
227.33	-0.22	230.3	-0.8548		
227.37	-0.22	230.3	-0.8566		
227.40	-0.22	230.2	-0.8575		
227.43	-0.22	230.2	-0.8575		
227.47	-0.219	230.2	-0.8575		
227.50	-0.219	230.1	-0.8583		
227.53	-0.22	230.1	-0.8592		
227.57	-0.22	230	-0.8601		
227.60	-0.22	230	-0.8601		
227.63	-0.219	229.9	-0.8601		
227.67	-0.219	229.9	-0.8601		
227.70	-0.219	229.9	-0.861		
227.73	-0.219	229.9	-0.8619		
227.77	-0.219	229.8	-0.8619		
227.80	-0.218	229.8	-0.8619		
227.83	-0.218	229.8	-0.8628		
227.87	-0.218	229.7	-0.8628		
227.90	-0.218	229.7	-0.8628		
227.93	-0.218	229.7	-0.8637		
227.97	-0.218	229.7	-0.8637		
228.00	-0.217	229.6	-0.8637		
228.03	-0.217	229.6	-0.8637		
228.07	-0.216	229.6	-0.8646		
228.10	-0.216	229.6	-0.8646		
228.13	-0.215	229.6	-0.8646		
228.17	-0.215	229.6	-0.8646		
228.20	-0.215	229.5	-0.8646		
228.23	-0.215	229.5	-0.8646		
228.28	-0.214	229.5	-0.8646		
228.30	-0.214	229.5	-0.8646		
228.33	-0.213	229.5	-0.8646		
228.37	-0.212	229.5	-0.8646		
228.40	-0.212	229.5	-0.8646		
228.43	-0.212	229.5	-0.8637		
228.47	-0.21	229.5	-0.8637		
228.50	-0.21	229.5	-0.8637		
228.53	-0.21	229.5	-0.8637		
228.57	-0.209	229.5	-0.8637		
228.60	-0.209	229.5	-0.8628		
228.63	-0.208	229.5	-0.8628		
228.67	-0.207	229.5	-0.8628		
228.70	-0.206	229.5	-0.8628		
228.73	-0.205	229.5	-0.8619		
228.77	-0.205	229.5	-0.8619		
228.80	-0.205	229.5	-0.8619		
228.83	-0.203	229.5	-0.861		
228.87	-0.203	229.5	-0.861		
228.90	-0.202	229.5	-0.8601		
228.93	-0.2	229.6	-0.8601		
228.97	-0.2	229.6	-0.8601		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
229.00	-0.2	229.6	-0.8601		
229.03	-0.2	229.6	-0.8592		
229.07	-0.197	229.6	-0.8592		
229.10	-0.197	229.6	-0.8583		
229.13	-0.196	229.7	-0.8583		
229.17	-0.194	229.7	-0.8583		
229.20	-0.194	229.7	-0.8575		
229.23	-0.194	229.7	-0.8566		
229.27	-0.193	229.7	-0.8566		
229.30	-0.191	229.8	-0.8548		
229.33	-0.19	229.8	-0.8548		
229.37	-0.19	229.8	-0.8539		
229.40	-0.188	229.9	-0.8539		
229.43	-0.187	229.9	-0.853		
229.47	-0.187	229.9	-0.8521		
229.50	-0.186	230	-0.8521		
229.53	-0.184	230	-0.8504		
229.57	-0.182	230	-0.8504		
229.60	-0.182	230.1	-0.8495		
229.63	-0.18	230.1	-0.8495		
229.67	-0.179	230.1	-0.8486		
229.72	-0.179	230.2	-0.8468		
229.75	-0.177	230.2	-0.8468		
229.77	-0.175	230.2	-0.8459		
229.80	-0.175	230.3	-0.845		
229.83	-0.175	230.3	-0.8441		
229.87	-0.171	230.4	-0.8433		
229.90	-0.171	230.4	-0.8424		
229.93	-0.17	230.5	-0.8415		
229.97	-0.168	230.6	-0.8415		
230.00	-0.166	230.6	-0.8397		
230.03	-0.166	230.6	-0.8388		
230.07	-0.165	230.7	-0.8379		
230.10	-0.163	230.7	-0.837		
230.13	-0.162	230.8	-0.8353		
230.17	-0.16	230.9	-0.8344		
230.20	-0.158	230.9	-0.8344		
230.23	-0.157	230.9	-0.8335		
230.27	-0.157	231	-0.8317		
230.30	-0.156	231.1	-0.8308		
230.33	-0.153	231.1	-0.8291		
230.37	-0.152	231.2	-0.8282		
230.40	-0.151	231.3	-0.8264		
230.43	-0.148	231.4	-0.8264		
230.47	-0.147	231.4	-0.8255		
230.50	-0.147	231.4	-0.8237		
230.53	-0.145	231.5	-0.822		
230.57	-0.143	231.6	-0.8202		
230.60	-0.142	231.7	-0.8193		
230.63	-0.14	231.7	-0.8175		
230.67	-0.138	231.8	-0.8175		
230.70	-0.136	231.8	-0.8157		
230.73	-0.136	231.9	-0.8149		
230.77	-0.135	232	-0.8131		
230.80	-0.132	232.1	-0.8113		
230.83	-0.131	232.2	-0.8095		
230.87	-0.129	232.2	-0.8078		
230.90	-0.125	232.4	-0.8078		
230.93	-0.126	232.4	-0.806		
230.97	-0.126	232.4	-0.8051		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
231.00	-0.123	232.5	-0.8024		
231.03	-0.12	232.6	-0.8007		
231.07	-0.119	232.7	-0.7989		
231.10	-0.118	232.8	-0.7971		
231.13	-0.114	233	-0.7971		
231.18	-0.114	233	-0.7936		
231.22	-0.112	233.1	-0.7918		
231.23	-0.11	233.2	-0.7918		
231.27	-0.107	233.2	-0.79		
231.30	-0.107	233.3	-0.7882		
231.33	-0.107	233.4	-0.7856		
231.37	-0.104	233.5	-0.7838		
231.40	-0.102	233.7	-0.782		
231.43	-0.1	233.8	-0.7793		
231.47	-0.097	233.9	-0.7793		
231.50	-0.095	233.9	-0.7776		
231.53	-0.095	234	-0.7749		
231.57	-0.094	234.1	-0.7731		
231.60	-0.09	234.2	-0.7696		
231.63	-0.089	234.3	-0.7678		
231.67	-0.087	234.5	-0.7651		
231.70	-0.085	234.6	-0.7651		
231.73	-0.082	234.6	-0.7634		
231.77	-0.082	234.7	-0.7607		
231.80	-0.081	234.8	-0.758		
231.83	-0.078	234.9	-0.7554		
231.87	-0.075	235.1	-0.7527		
231.90	-0.075	235.2	-0.7509		
231.93	-0.071	235.3	-0.7509		
231.97	-0.07	235.3	-0.7483		
232.00	-0.07	235.4	-0.7447		
232.03	-0.068	235.5	-0.7421		
232.07	-0.064	235.7	-0.7394		
232.10	-0.063	235.8	-0.7367		
232.13	-0.061	235.9	-0.7332		
232.17	-0.057	236.1	-0.7332		
232.20	-0.056	236.1	-0.7305		
232.23	-0.056	236.2	-0.7288		
232.27	-0.054	236.3	-0.7252		
232.30	-0.051	236.5	-0.7225		
232.33	-0.049	236.6	-0.7199		
232.37	-0.047	236.7	-0.7163		
232.40	-0.044	236.9	-0.7163		
232.43	-0.042	236.9	-0.7137		
232.47	-0.042	237	-0.711		
232.50	-0.041	237.2	-0.7074		
232.53	-0.037	237.3	-0.7039		
232.57	-0.035	237.5	-0.7021		
232.62	-0.033	237.6	-0.6995		
232.65	-0.033	237.7	-0.6968		
232.67	-0.029	237.8	-0.6932		
232.70	-0.028	238	-0.6906		
232.73	-0.023	238.1	-0.6906		
232.77	-0.023	238.1	-0.687		
232.80	-0.023	238.2	-0.6844		
232.83	-0.021	238.4	-0.6808		
232.87	-0.016	238.5	-0.6764		
232.90	-0.015	238.7	-0.6737		
232.93	-0.014	238.8	-0.6702		
232.97	-0.011	239	-0.6702		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
233.00	-0.008	239	-0.6666		
233.03	-0.008	239.1	-0.6631		
233.07	-0.006	239.2	-0.6595		
233.10	-0.002	239.4	-0.656		
233.13	-0.001	239.5	-0.6533		
233.17	0.001	239.7	-0.6498		
233.20	0.004	239.8	-0.6498		
233.23	0.005	239.8	-0.6453		
233.27	0.005	240	-0.6418		
233.30	0.008	240.1	-0.6382		
233.33	0.012	240.3	-0.6338		
233.37	0.013	240.4	-0.6311		
233.40	0.015	240.5	-0.6276		
233.43	0.019	240.7	-0.6276		
233.47	0.021	240.7	-0.6231		
233.50	0.021	240.8	-0.6205		
233.53	0.021	240.9	-0.6169		
233.57	0.025	241.1	-0.6125		
233.60	0.027	241.3	-0.6089		
233.63	0.029	241.5	-0.6045		
233.67	0.033	241.6	-0.6045		
233.70	0.034	241.6	-0.6		
233.73	0.034	241.7	-0.5965		
233.77	0.036	241.9	-0.5921		
233.80	0.04	242.1	-0.5876		
233.83	0.041	242.2	-0.5841		
233.87	0.043	242.3	-0.5796		
233.90	0.047	242.5	-0.5796		
233.93	0.049	242.5	-0.5752		
233.97	0.049	242.6	-0.5716		
234.00	0.05	242.8	-0.5681		
234.03	0.053	242.9	-0.5637		
234.08	0.056	243.1	-0.5592		
234.12	0.056	243.2	-0.5566		
234.13	0.059	243.4	-0.5512		
234.17	0.061	243.5	-0.5477		
234.20	0.063	243.7	-0.5423		
234.23	0.066	243.8	-0.5423		
234.27	0.069	243.8	-0.5379		
234.30	0.069	244	-0.5344		
234.33	0.07	244.1	-0.5308		
234.37	0.072	244.3	-0.5255		
234.40	0.075	244.4	-0.521		
234.43	0.077	244.6	-0.5157		
234.47	0.079	244.7	-0.5157		
234.50	0.082	244.7	-0.5113		
234.53	0.082	244.9	-0.5068		
234.57	0.083	245	-0.5024		
234.60	0.086	245.2	-0.4971		
234.63	0.089	245.3	-0.4926		
234.67	0.089	245.5	-0.4891		
234.70	0.093	245.7	-0.4891		
234.73	0.096	245.7	-0.4838		
234.77	0.096	245.8	-0.4784		
234.80	0.096	245.9	-0.474		
234.83	0.1	246.1	-0.4704		
234.87	0.101	246.2	-0.466		
234.90	0.105	246.4	-0.4589		
234.93	0.105	246.5	-0.4589		
234.97	0.108	246.5	-0.4562		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
235.00	0.108	246.7	-0.4518		
235.03	0.109	246.8	-0.4465		
235.07	0.113	247	-0.442		
235.10	0.114	247.1	-0.4376		
235.13	0.115	247.3	-0.4323		
235.17	0.119	247.4	-0.4323		
235.20	0.121	247.4	-0.427		
235.23	0.121	247.6	-0.4225		
235.27	0.122	247.7	-0.419		
235.30	0.125	247.8	-0.4136		
235.33	0.126	247.9	-0.4101		
235.37	0.128	248.1	-0.4057		
235.40	0.134	248.3	-0.4057		
235.43	0.133	248.3	-0.3977		
235.47	0.133	248.4	-0.3959		
235.52	0.136	248.7	-0.3923		
235.55	0.137	248.7	-0.387		
235.57	0.137	248.8	-0.3843		
235.60	0.139	248.9	-0.3799		
235.63	0.142	249	-0.3746		
235.67	0.144	249.2	-0.3693		
235.70	0.145	249.3	-0.3666		
235.73	0.146	249.4	-0.3666		
235.77	0.151	249.4	-0.363		
235.80	0.151	249.6	-0.3559		
235.83	0.149	249.7	-0.3542		
235.87	0.151	249.8	-0.3497		
235.90	0.154	250	-0.3453		
235.93	0.156	250.1	-0.3409		
235.97	0.158	250.2	-0.3409		
236.00	0.161	250.2	-0.3355		
236.03	0.161	250.4	-0.3302		
236.07	0.16	250.5	-0.3275		
236.10	0.163	250.6	-0.3231		
236.13	0.165	250.8	-0.3187		
236.17	0.166	250.9	-0.3151		
236.20	0.168	251	-0.3151		
236.23	0.169	251	-0.3107		
236.27	0.169	251.1	-0.3062		
236.30	0.172	251.3	-0.3018		
236.33	0.174	251.4	-0.2974		
236.37	0.175	251.5	-0.2938		
236.40	0.176	251.6	-0.2885		
236.43	0.179	251.8	-0.2885		
236.47	0.179	251.8	-0.284		
236.50	0.179	251.9	-0.2805		
236.53	0.181	252	-0.2761		
236.57	0.183	252.1	-0.2725		
236.60	0.184	252.2	-0.269		
236.63	0.186	252.4	-0.2645		
236.67	0.187	252.5	-0.2645		
236.70	0.188	252.5	-0.2619		
236.73	0.188	252.6	-0.2583		
236.77	0.19	252.7	-0.2539		
236.80	0.191	252.8	-0.2503		
236.83	0.193	252.9	-0.2468		
236.87	0.197	253.1	-0.2414		
236.90	0.194	253.1	-0.2414		
236.93	0.196	253.1	-0.2406		
236.98	0.197	253.4	-0.2343		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
237.02	0.199	253.5	-0.2343		
237.03	0.2	253.5	-0.2308		
237.07	0.2	253.6	-0.2272		
237.10	0.201	253.7	-0.2246		
237.13	0.203	253.8	-0.221		
237.17	0.204	253.9	-0.2184		
237.20	0.204	254	-0.2148		
237.23	0.206	254.2	-0.2148		
237.27	0.207	254.2	-0.2121		
237.30	0.207	254.3	-0.2086		
237.33	0.208	254.3	-0.2068		
237.37	0.209	254.5	-0.2033		
237.40	0.21	254.6	-0.2006		
237.43	0.211	254.6	-0.1979		
237.47	0.213	254.7	-0.1979		
237.50	0.213	254.7	-0.1953		
237.53	0.213	254.8	-0.1926		
237.57	0.214	254.9	-0.19		
237.60	0.216	255	-0.1873		
237.63	0.216	255.1	-0.1846		
237.67	0.217	255.2	-0.1829		
237.70	0.218	255.3	-0.1829		
237.73	0.219	255.3	-0.1802		
237.77	0.219	255.4	-0.1784		
237.80	0.219	255.5	-0.1758		
237.83	0.221	255.6	-0.174		
237.87	0.221	255.7	-0.1704		
237.90	0.224	255.8	-0.1678		
237.93	0.224	255.8	-0.1678		
237.97	0.222	255.8	-0.166		
238.00	0.222	255.9	-0.1651		
238.03	0.223	256	-0.1633		
238.07	0.225	256.1	-0.1616		
238.10	0.225	256.1	-0.1589		
238.13	0.226	256.2	-0.1571		
238.17	0.227	256.3	-0.1571		
238.20	0.227	256.3	-0.1553		
238.23	0.227	256.4	-0.1544		
238.27	0.228	256.4	-0.1527		
238.30	0.228	256.5	-0.1509		
238.33	0.228	256.6	-0.1491		
238.37	0.229	256.7	-0.1473		
238.40	0.23	256.7	-0.1473		
238.45	0.23	256.8	-0.1447		
238.48	0.23	256.9	-0.1438		
238.50	0.231	256.9	-0.1438		
238.53	0.231	256.9	-0.142		
238.57	0.231	257	-0.1411		
238.60	0.231	257.1	-0.1394		
238.63	0.234	257.2	-0.1367		
238.67	0.232	257.2	-0.1367		
238.70	0.232	257.3	-0.1358		
238.73	0.231	257.3	-0.1358		
238.77	0.232	257.3	-0.1358		
238.80	0.232	257.4	-0.1349		
238.83	0.233	257.4	-0.1331		
238.87	0.234	257.5	-0.1323		
238.90	0.233	257.5	-0.1314		
238.93	0.233	257.6	-0.1305		
238.97	0.233	257.6	-0.1305		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
239.00	0.233	257.6	-0.1296			
239.03	0.233	257.7	-0.1287			
239.07	0.233	257.7	-0.1287			
239.10	0.233	257.8	-0.1278			
239.13	0.235	257.8	-0.126			
239.17	0.232	257.9	-0.1269			
239.20	0.232	257.9	-0.1269			
239.23	0.233	257.9	-0.1269			
239.27	0.233	258	-0.126			
239.30	0.233	258	-0.1252			
239.33	0.233	258.1	-0.1243			
239.37	0.233	258.1	-0.1243			
239.40	0.235	258.2	-0.1225			
239.43	0.233	258.2	-0.1225			
239.47	0.231	258.2	-0.1234			
239.50	0.231	258.2	-0.1234			
239.53	0.231	258.3	-0.1234			
239.57	0.232	258.3	-0.1225			
239.60	0.231	258.4	-0.1225			
239.63	0.231	258.4	-0.1225			
239.67	0.233	258.5	-0.1225			
239.70	0.229	258.5	-0.1216			
239.73	0.229	258.5	-0.1225			
239.77	0.229	258.5	-0.1225			
239.80	0.229	258.5	-0.1225			
239.83	0.229	258.6	-0.1216			
239.88	0.228	258.6	-0.1216			
239.92	0.228	258.6	-0.1216			
239.93	0.229	258.7	-0.1216			
239.97	0.226	258.7	-0.1225			
240.00	0.225	258.7	-0.1225			
240.03	0.225	258.7	-0.1225			
240.07	0.225	258.7	-0.1225			
240.10	0.227	258.8	-0.1216			
240.13	0.225	258.8	-0.1225			
240.17	0.222	258.8	-0.1234			
240.20	0.222	258.8	-0.1234			
240.23	0.222	258.8	-0.1234			
240.27	0.224	258.8	-0.1234			
240.30	0.224	258.8	-0.1234			
240.33	0.22	258.8	-0.1243			
240.37	0.218	258.8	-0.1243			
240.40	0.218	258.9	-0.1243			
240.43	0.218	258.9	-0.1243			
240.47	0.218	258.9	-0.1243			
240.50	0.216	258.9	-0.1252			
240.53	0.216	258.9	-0.1252			
240.57	0.216	258.9	-0.126			
240.60	0.217	259	-0.1252			
240.63	0.214	258.9	-0.1269			
240.67	0.211	258.9	-0.1278			
240.70	0.21	258.9	-0.1278			
240.73	0.21	258.9	-0.1278			
240.77	0.21	259	-0.1269			
240.80	0.212	259	-0.1278			
240.83	0.207	258.9	-0.1296			
240.87	0.207	259	-0.1296			
240.90	0.206	259	-0.1296			
240.93	0.206	259	-0.1296			
240.97	0.203	259	-0.1296			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
241.00	0.203	258.9	-0.1314			
241.03	0.203	259	-0.1314			
241.07	0.202	259	-0.1323			
241.10	0.201	259	-0.1323			
241.13	0.199	259	-0.1331			
241.17	0.2	259	-0.1331			
241.20	0.195	259	-0.134			
241.23	0.195	258.9	-0.1358			
241.27	0.195	258.9	-0.1358			
241.30	0.194	258.9	-0.1367			
241.35	0.194	258.9	-0.1367			
241.38	0.191	258.9	-0.1376			
241.40	0.19	258.9	-0.1385			
241.43	0.189	258.9	-0.1394			
241.47	0.187	258.8	-0.1402			
241.50	0.186	258.8	-0.1402			
241.53	0.185	258.8	-0.1402			
241.57	0.185	258.8	-0.1411			
241.60	0.184	258.8	-0.142			
241.63	0.181	258.8	-0.1438			
241.67	0.18	258.7	-0.1438			
241.70	0.179	258.7	-0.1456			
241.73	0.177	258.7	-0.1456			
241.77	0.175	258.7	-0.1465			
241.80	0.175	258.7	-0.1465			
241.83	0.176	258.7	-0.1473			
241.87	0.171	258.6	-0.15			
241.90	0.17	258.6	-0.15			
241.93	0.17	258.6	-0.1509			
241.97	0.169	258.5	-0.1509			
242.00	0.166	258.5	-0.1518			
242.03	0.166	258.5	-0.1536			
242.07	0.163	258.4	-0.1553			
242.10	0.161	258.4	-0.1562			
242.13	0.16	258.4	-0.1571			
242.17	0.159	258.4	-0.158			
242.20	0.156	258.3	-0.158			
242.23	0.155	258.3	-0.1598			
242.27	0.155	258.3	-0.1607			
242.30	0.155	258.3	-0.1616			
242.33	0.15	258.2	-0.1642			
242.37	0.149	258.2	-0.1651			
242.40	0.149	258.1	-0.166			
242.43	0.145	258.1	-0.166			
242.47	0.144	258.1	-0.1678			
242.50	0.144	258	-0.1687			
242.53	0.144	258	-0.1704			
242.57	0.139	257.9	-0.1731			
242.60	0.138	257.9	-0.174			
242.63	0.136	257.8	-0.1758			
242.67	0.134	257.7	-0.1758			
242.70	0.132	257.7	-0.1766			
242.73	0.132	257.7	-0.1784			
242.78	0.129	257.6	-0.1793			
242.82	0.127	257.6	-0.1802			
242.83	0.127	257.6	-0.182			
242.87	0.126	257.5	-0.1837			
242.90	0.123	257.5	-0.1855			
242.93	0.122	257.4	-0.1864			
242.97	0.119	257.4	-0.19			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
243.00	0.116	257.3	-0.19			
243.03	0.115	257.3	-0.1917			
243.07	0.115	257.2	-0.1926			
243.10	0.113	257.2	-0.1944			
243.13	0.111	257.1	-0.1962			
243.17	0.108	257	-0.1988			
243.20	0.108	257	-0.2006			
243.23	0.104	256.9	-0.2006			
243.27	0.103	256.9	-0.2024			
243.30	0.103	256.8	-0.2042			
243.33	0.101	256.8	-0.2068			
243.37	0.097	256.7	-0.2095			
243.40	0.098	256.7	-0.2095			
243.43	0.092	256.5	-0.2148			
243.47	0.089	256.4	-0.2148			
243.50	0.089	256.4	-0.2166			
243.53	0.089	256.4	-0.2175			
243.57	0.087	256.3	-0.2201			
243.60	0.085	256.2	-0.2219			
243.63	0.082	256.2	-0.2246			
243.67	0.08	256.1	-0.2272			
243.70	0.078	256	-0.2272			
243.73	0.076	256	-0.229			
243.77	0.076	255.9	-0.2317			
243.80	0.076	255.9	-0.2326			
243.83	0.069	255.7	-0.2379			
243.87	0.069	255.7	-0.2388			
243.90	0.066	255.6	-0.2423			
243.93	0.064	255.5	-0.2423			
243.97	0.061	255.5	-0.245			
244.00	0.061	255.4	-0.2477			
244.03	0.06	255.3	-0.2503			
244.07	0.057	255.2	-0.253			
244.10	0.055	255.1	-0.2556			
244.13	0.053	255	-0.2592			
244.17	0.05	254.9	-0.2592			
244.20	0.048	254.9	-0.2619			
244.25	0.048	254.7	-0.2654			
244.28	0.045	254.6	-0.2654			
244.30	0.04	254.6	-0.269			
244.33	0.04	254.5	-0.2725			
244.37	0.041	254.4	-0.2734			
244.40	0.037	254.3	-0.2769			
244.43	0.034	254.2	-0.2796			
244.47	0.033	254.1	-0.2832			
244.50	0.03	254	-0.2832			
244.53	0.028	254	-0.2867			
244.57	0.028	253.9	-0.2894			
244.60	0.026	253.8	-0.2938			
244.63	0.023	253.6	-0.2974			
244.67	0.021	253.5	-0.3			
244.70	0.019	253.4	-0.3036			
244.73	0.016	253.3	-0.3036			
244.77	0.013	253.3	-0.3071			
244.80	0.013	253.2	-0.3107			
244.83	0.011	253.1	-0.3142			
244.87	0.008	252.9	-0.3178			
244.90	0.007	252.8	-0.3204			
244.93	0.005	252.7	-0.3249			
244.97	0	252.5	-0.3249			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
245.00	-0.001	252.5	-0.3293		
245.03	-0.001	252.5	-0.332		
245.07	-0.002	252.4	-0.3355		
245.10	-0.006	252.2	-0.3391		
245.13	-0.008	252.1	-0.3426		
245.17	-0.01	252	-0.3462		
245.20	-0.013	251.8	-0.3462		
245.23	-0.015	251.8	-0.3506		
245.27	-0.015	251.7	-0.3542		
245.30	-0.017	251.6	-0.3586		
245.33	-0.02	251.4	-0.363		
245.37	-0.022	251.3	-0.3657		
245.40	-0.023	251.2	-0.3693		
245.43	-0.028	251	-0.3693		
245.47	-0.029	251	-0.3746		
245.50	-0.029	250.9	-0.3781		
245.53	-0.031	250.8	-0.3817		
245.57	-0.034	250.6	-0.387		
245.60	-0.037	250.5	-0.3906		
245.63	-0.038	250.4	-0.3941		
245.67	-0.041	250.2	-0.3941		
245.72	-0.042	250.1	-0.4021		
245.73	-0.044	250	-0.4057		
245.77	-0.048	249.8	-0.4057		
245.80	-0.05	249.8	-0.4101		
245.83	-0.05	249.7	-0.4145		
245.87	-0.05	249.6	-0.4172		
245.90	-0.054	249.4	-0.4225		
245.93	-0.056	249.3	-0.4261		
245.97	-0.058	249.1	-0.4314		
246.00	-0.061	249	-0.4314		
246.03	-0.063	249	-0.4358		
246.07	-0.063	248.9	-0.4403		
246.10	-0.065	248.7	-0.4447		
246.13	-0.068	248.5	-0.45		
246.17	-0.07	248.4	-0.4545		
246.20	-0.071	248.3	-0.4589		
246.23	-0.075	248.1	-0.4589		
246.27	-0.076	248.1	-0.4642		
246.30	-0.076	248	-0.4687		
246.33	-0.078	247.8	-0.4731		
246.37	-0.081	247.7	-0.4776		
246.40	-0.084	247.5	-0.4829		
246.43	-0.084	247.4	-0.4873		
246.47	-0.088	247.2	-0.4873		
246.50	-0.089	247.2	-0.4918		
246.53	-0.089	247.1	-0.4962		
246.57	-0.091	246.9	-0.5015		
246.60	-0.095	246.7	-0.5068		
246.63	-0.095	246.6	-0.5113		
246.67	-0.097	246.5	-0.5166		
246.70	-0.101	246.3	-0.5166		
246.73	-0.102	246.3	-0.5219		
246.77	-0.102	246.1	-0.5273		
246.80	-0.104	246	-0.5317		
246.83	-0.107	245.8	-0.537		
246.87	-0.109	245.6	-0.5423		
246.90	-0.109	245.5	-0.5459		
246.93	-0.112	245.3	-0.5459		
246.97	-0.114	245.3	-0.5512		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
247.00	-0.114	245.2	-0.5566		
247.03	-0.116	245	-0.561		
247.07	-0.119	244.8	-0.5663		
247.10	-0.12	244.7	-0.5716		
247.15	-0.122	244.5	-0.5752		
247.18	-0.123	244.4	-0.5796		
247.20	-0.125	244.2	-0.5841		
247.23	-0.126	244.1	-0.5894		
247.27	-0.13	243.9	-0.5894		
247.30	-0.131	243.9	-0.5947		
247.33	-0.131	243.7	-0.5992		
247.37	-0.132	243.6	-0.6036		
247.40	-0.135	243.4	-0.6089		
247.43	-0.136	243.2	-0.6134		
247.47	-0.138	243.1	-0.6187		
247.50	-0.14	242.9	-0.6187		
247.53	-0.143	242.9	-0.6231		
247.57	-0.143	242.8	-0.6284		
247.60	-0.143	242.7	-0.632		
247.63	-0.146	242.5	-0.6364		
247.67	-0.147	242.3	-0.6409		
247.70	-0.148	242.2	-0.6453		
247.73	-0.15	242	-0.6453		
247.77	-0.153	242	-0.6498		
247.80	-0.153	241.8	-0.6551		
247.83	-0.154	241.7	-0.6595		
247.87	-0.156	241.5	-0.6648		
247.90	-0.157	241.4	-0.6693		
247.93	-0.158	241.2	-0.6728		
247.97	-0.162	241	-0.6728		
248.00	-0.162	241	-0.6782		
248.03	-0.162	240.9	-0.6817		
248.07	-0.163	240.8	-0.6861		
248.10	-0.165	240.6	-0.6915		
248.13	-0.168	240.4	-0.6959		
248.17	-0.168	240.3	-0.7003		
248.20	-0.17	240.2	-0.7003		
248.23	-0.171	240.2	-0.7039		
248.27	-0.171	240	-0.7083		
248.30	-0.172	239.9	-0.7119		
248.33	-0.174	239.7	-0.7163		
248.37	-0.176	239.6	-0.7208		
248.40	-0.177	239.4	-0.7252		
248.43	-0.179	239.3	-0.7252		
248.47	-0.18	239.3	-0.7296		
248.50	-0.18	239.1	-0.7332		
248.53	-0.181	239	-0.7367		
248.57	-0.183	238.8	-0.7412		
248.62	-0.183	238.7	-0.7447		
248.65	-0.184	238.6	-0.7483		
248.67	-0.185	238.4	-0.7527		
248.70	-0.187	238.3	-0.7563		
248.73	-0.188	238.1	-0.7598		
248.77	-0.19	238	-0.7598		
248.80	-0.19	238	-0.7634		
248.83	-0.19	237.9	-0.766		
248.87	-0.192	237.7	-0.7696		
248.90	-0.193	237.6	-0.7731		
248.93	-0.194	237.5	-0.7767		
248.97	-0.194	237.4	-0.7793		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
249.00	-0.196	237.2	-0.7793		
249.03	-0.198	237.2	-0.7829		
249.07	-0.198	237.1	-0.7864		
249.10	-0.197	236.9	-0.7882		
249.13	-0.199	236.8	-0.7918		
249.17	-0.2	236.7	-0.7944		
249.20	-0.201	236.6	-0.798		
249.23	-0.202	236.4	-0.798		
249.27	-0.203	236.4	-0.8007		
249.30	-0.203	236.3	-0.8033		
249.33	-0.203	236.2	-0.806		
249.37	-0.204	236.1	-0.8086		
249.40	-0.206	235.9	-0.8122		
249.43	-0.206	235.8	-0.814		
249.47	-0.207	235.7	-0.814		
249.50	-0.208	235.7	-0.8166		
249.53	-0.208	235.6	-0.8193		
249.57	-0.208	235.5	-0.822		
249.60	-0.21	235.3	-0.8246		
249.63	-0.21	235.2	-0.8273		
249.67	-0.211	235.1	-0.8291		
249.70	-0.211	235	-0.8291		
249.73	-0.212	235	-0.8317		
249.77	-0.212	234.9	-0.8344		
249.80	-0.212	234.8	-0.8362		
249.83	-0.213	234.7	-0.8379		
249.87	-0.214	234.6	-0.8406		
249.90	-0.214	234.5	-0.8424		
249.93	-0.215	234.4	-0.8424		
249.97	-0.215	234.4	-0.8441		
250.00	-0.215	234.3	-0.8459		
250.05	-0.216	234.1	-0.8477		
250.08	-0.217	234.1	-0.8495		
250.10	-0.217	234	-0.8512		
250.13	-0.216	234	-0.8521		
250.17	-0.217	233.9	-0.8539		
250.20	-0.217	233.8	-0.8557		
250.23	-0.218	233.7	-0.8575		
250.27	-0.218	233.6	-0.8575		
250.30	-0.218	233.6	-0.8592		
250.33	-0.218	233.6	-0.8601		
250.37	-0.219	233.5	-0.861		
250.40	-0.219	233.4	-0.8628		
250.43	-0.219	233.3	-0.8637		
250.47	-0.219	233.3	-0.8646		
250.50	-0.22	233.2	-0.8646		
250.53	-0.219	233.2	-0.8663		
250.57	-0.219	233.1	-0.8672		
250.60	-0.219	233.1	-0.8681		
250.63	-0.22	233	-0.869		
250.67	-0.22	232.9	-0.8699		
250.70	-0.22	232.9	-0.8708		
250.73	-0.22	232.8	-0.8708		
250.77	-0.22	232.7	-0.8717		
250.80	-0.22	232.7	-0.8726		
250.83	-0.219	232.7	-0.8734		
250.87	-0.22	232.6	-0.8743		
250.90	-0.22	232.6	-0.8752		
250.93	-0.219	232.5	-0.8752		
250.97	-0.219	232.5	-0.8752		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
251.00	-0.219	232.5	-0.8761		
251.03	-0.219	232.5	-0.877		
251.07	-0.219	232.4	-0.877		
251.10	-0.219	232.4	-0.8779		
251.13	-0.219	232.3	-0.8779		
251.17	-0.218	232.3	-0.8779		
251.20	-0.218	232.3	-0.8779		
251.23	-0.218	232.2	-0.8788		
251.27	-0.218	232.2	-0.8788		
251.30	-0.217	232.2	-0.8788		
251.33	-0.217	232.2	-0.8797		
251.37	-0.217	232.2	-0.8797		
251.40	-0.216	232.1	-0.8797		
251.43	-0.216	232.1	-0.8797		
251.47	-0.215	232.1	-0.8797		
251.52	-0.215	232.1	-0.8797		
251.55	-0.215	232.1	-0.8797		
251.57	-0.214	232.1	-0.8797		
251.60	-0.214	232.1	-0.8797		
251.63	-0.214	232	-0.8797		
251.67	-0.213	232	-0.8797		
251.70	-0.212	232	-0.8797		
251.73	-0.212	232	-0.8797		
251.77	-0.212	232	-0.8797		
251.80	-0.211	232	-0.8797		
251.83	-0.211	232	-0.8788		
251.87	-0.21	232	-0.8788		
251.90	-0.209	232	-0.8788		
251.93	-0.208	232	-0.8788		
251.97	-0.208	232	-0.8779		
252.00	-0.206	232	-0.8779		
252.03	-0.206	232	-0.8779		
252.07	-0.206	232	-0.877		
252.10	-0.205	232	-0.877		
252.13	-0.205	232	-0.877		
252.17	-0.204	232.1	-0.8761		
252.20	-0.203	232.1	-0.8761		
252.23	-0.201	232.1	-0.8761		
252.27	-0.201	232.1	-0.8752		
252.30	-0.201	232.1	-0.8752		
252.33	-0.2	232.1	-0.8743		
252.37	-0.199	232.2	-0.8734		
252.40	-0.198	232.2	-0.8734		
252.43	-0.196	232.2	-0.8726		
252.47	-0.196	232.2	-0.8726		
252.50	-0.195	232.2	-0.8717		
252.53	-0.195	232.2	-0.8717		
252.57	-0.193	232.2	-0.8708		
252.60	-0.193	232.3	-0.8708		
252.63	-0.191	232.3	-0.8699		
252.67	-0.191	232.3	-0.869		
252.70	-0.189	232.4	-0.869		
252.73	-0.188	232.4	-0.8681		
252.77	-0.188	232.4	-0.8672		
252.80	-0.186	232.5	-0.8663		
252.83	-0.186	232.5	-0.8663		
252.87	-0.184	232.5	-0.8654		
252.90	-0.183	232.6	-0.8646		
252.95	-0.181	232.6	-0.8637		
252.98	-0.181	232.6	-0.8637		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
253.00	-0.18	232.7	-0.8619		
253.03	-0.177	232.8	-0.8619		
253.07	-0.176	232.8	-0.861		
253.10	-0.176	232.8	-0.8601		
253.13	-0.176	232.9	-0.8601		
253.17	-0.173	233	-0.8592		
253.20	-0.172	233	-0.8583		
253.23	-0.171	233	-0.8566		
253.27	-0.169	233.1	-0.8566		
253.30	-0.168	233.2	-0.8557		
253.33	-0.168	233.2	-0.8548		
253.37	-0.166	233.2	-0.8539		
253.40	-0.165	233.3	-0.853		
253.43	-0.163	233.3	-0.8512		
253.47	-0.162	233.4	-0.8504		
253.50	-0.16	233.5	-0.8504		
253.53	-0.158	233.6	-0.8486		
253.57	-0.158	233.6	-0.8477		
253.60	-0.157	233.6	-0.8468		
253.63	-0.155	233.7	-0.845		
253.67	-0.153	233.8	-0.8441		
253.70	-0.152	233.8	-0.8424		
253.73	-0.15	233.9	-0.8424		
253.77	-0.149	234	-0.8415		
253.80	-0.149	234	-0.8397		
253.83	-0.147	234.1	-0.8379		
253.87	-0.144	234.2	-0.837		
253.90	-0.143	234.2	-0.8353		
253.93	-0.141	234.3	-0.8335		
253.97	-0.14	234.4	-0.8335		
254.00	-0.138	234.5	-0.8326		
254.03	-0.138	234.5	-0.8308		
254.07	-0.136	234.6	-0.8291		
254.10	-0.134	234.7	-0.8273		
254.13	-0.132	234.8	-0.8264		
254.17	-0.13	234.8	-0.8246		
254.20	-0.128	234.9	-0.8246		
254.23	-0.126	235	-0.822		
254.27	-0.126	235	-0.8211		
254.30	-0.126	235.1	-0.8193		
254.33	-0.123	235.2	-0.8166		
254.37	-0.12	235.3	-0.8149		
254.42	-0.119	235.4	-0.814		
254.45	-0.118	235.5	-0.8122		
254.47	-0.115	235.6	-0.8104		
254.50	-0.115	235.7	-0.8086		
254.53	-0.112	235.8	-0.8086		
254.57	-0.109	235.9	-0.806		
254.60	-0.109	235.9	-0.8042		
254.63	-0.108	236	-0.8024		
254.67	-0.105	236.2	-0.7998		
254.70	-0.103	236.3	-0.798		
254.73	-0.102	236.4	-0.7962		
254.77	-0.099	236.5	-0.7962		
254.80	-0.097	236.6	-0.7936		
254.83	-0.097	236.6	-0.7918		
254.87	-0.095	236.7	-0.7891		
254.90	-0.093	236.8	-0.7864		
254.93	-0.09	237	-0.7838		
254.97	-0.09	237.1	-0.7829		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
255.00	-0.087	237.2	-0.7829		
255.03	-0.083	237.3	-0.7793		
255.07	-0.083	237.3	-0.7776		
255.10	-0.084	237.4	-0.7758		
255.13	-0.08	237.6	-0.7722		
255.17	-0.078	237.7	-0.7696		
255.20	-0.076	237.8	-0.7678		
255.23	-0.074	237.9	-0.7678		
255.27	-0.071	238.1	-0.7651		
255.30	-0.071	238.1	-0.7625		
255.33	-0.069	238.2	-0.7598		
255.37	-0.066	238.3	-0.7563		
255.40	-0.065	238.4	-0.7545		
255.43	-0.063	238.6	-0.7518		
255.47	-0.06	238.7	-0.7518		
255.50	-0.057	238.9	-0.7483		
255.53	-0.057	238.9	-0.7447		
255.57	-0.056	239	-0.743		
255.60	-0.053	239.1	-0.7394		
255.63	-0.051	239.2	-0.7367		
255.67	-0.05	239.3	-0.7332		
255.70	-0.046	239.5	-0.7332		
255.73	-0.044	239.7	-0.7296		
255.77	-0.044	239.7	-0.7279		
255.80	-0.042	239.8	-0.7243		
255.83	-0.04	239.9	-0.7217		
255.88	-0.037	240.1	-0.719		
255.92	-0.036	240.2	-0.7163		
255.93	-0.034	240.3	-0.7137		
255.97	-0.031	240.4	-0.7101		
256.00	-0.03	240.5	-0.7074		
256.03	-0.027	240.7	-0.7074		
256.07	-0.024	240.8	-0.7039		
256.10	-0.024	240.8	-0.7003		
256.13	-0.022	241	-0.6968		
256.17	-0.019	241.1	-0.6932		
256.20	-0.017	241.3	-0.6906		
256.23	-0.015	241.4	-0.687		
256.27	-0.012	241.6	-0.687		
256.30	-0.01	241.7	-0.6835		
256.33	-0.01	241.7	-0.6799		
256.37	-0.007	241.9	-0.6764		
256.40	-0.006	242	-0.6728		
256.43	-0.003	242.2	-0.6693		
256.47	-0.001	242.3	-0.6657		
256.50	0.002	242.5	-0.6657		
256.53	0.004	242.6	-0.6613		
256.57	0.004	242.6	-0.6577		
256.60	0.006	242.8	-0.6551		
256.63	0.009	242.9	-0.6506		
256.67	0.011	243.1	-0.6471		
256.70	0.013	243.2	-0.6435		
256.73	0.016	243.4	-0.6435		
256.77	0.019	243.5	-0.6391		
256.80	0.019	243.5	-0.6356		
256.83	0.02	243.7	-0.632		
256.87	0.023	243.8	-0.6284		
256.90	0.026	244	-0.6249		
256.93	0.027	244.1	-0.6205		
256.97	0.03	244.3	-0.6205		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
257.00	0.033	244.4	-0.616			
257.03	0.033	244.4	-0.6125			
257.07	0.034	244.6	-0.608			
257.10	0.037	244.8	-0.6036			
257.13	0.039	244.9	-0.6			
257.17	0.042	245.1	-0.5956			
257.20	0.044	245.2	-0.5956			
257.23	0.047	245.4	-0.5912			
257.27	0.047	245.4	-0.5867			
257.32	0.05	245.7	-0.5832			
257.35	0.052	245.8	-0.5796			
257.37	0.052	245.8	-0.5761			
257.40	0.055	246	-0.5716			
257.43	0.056	246.2	-0.5681			
257.47	0.059	246.3	-0.5637			
257.50	0.061	246.5	-0.5592			
257.53	0.064	246.6	-0.5592			
257.57	0.067	246.8	-0.5539			
257.60	0.067	246.8	-0.5494			
257.63	0.069	246.9	-0.545			
257.67	0.072	247.1	-0.5406			
257.70	0.072	247.2	-0.537			
257.73	0.075	247.3	-0.5326			
257.77	0.078	247.5	-0.5326			
257.80	0.081	247.7	-0.5273			
257.83	0.081	247.7	-0.5219			
257.87	0.081	247.8	-0.5175			
257.90	0.084	248	-0.5122			
257.93	0.087	248.1	-0.5077			
257.97	0.09	248.3	-0.5006			
258.00	0.092	248.5	-0.5006			
258.03	0.093	248.6	-0.4962			
258.07	0.093	248.6	-0.4935			
258.10	0.093	248.7	-0.49			
258.13	0.098	248.9	-0.4838			
258.17	0.1	249	-0.4793			
258.20	0.101	249.1	-0.4749			
258.23	0.105	249.3	-0.4749			
258.27	0.106	249.4	-0.4696			
258.30	0.106	249.4	-0.4651			
258.33	0.108	249.6	-0.4598			
258.37	0.111	249.8	-0.4554			
258.40	0.113	249.9	-0.4509			
258.43	0.114	250.1	-0.4465			
258.47	0.117	250.2	-0.4465			
258.50	0.119	250.4	-0.442			
258.53	0.119	250.4	-0.4367			
258.57	0.12	250.5	-0.4323			
258.60	0.123	250.7	-0.427			
258.63	0.125	250.8	-0.4225			
258.67	0.126	250.9	-0.4181			
258.70	0.129	251.1	-0.4181			
258.73	0.131	251.2	-0.4128			
258.78	0.132	251.3	-0.4057			
258.82	0.134	251.5	-0.4057			
258.83	0.136	251.6	-0.4012			
258.87	0.136	251.6	-0.3968			
258.90	0.138	251.7	-0.3923			
258.93	0.139	251.9	-0.3879			
258.97	0.141	252	-0.3835			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
259.00	0.143	252.2	-0.3781			
259.03	0.145	252.3	-0.3781			
259.07	0.148	252.4	-0.3737			
259.10	0.148	252.4	-0.3693			
259.13	0.149	252.6	-0.3639			
259.17	0.151	252.7	-0.3595			
259.20	0.153	252.9	-0.3551			
259.23	0.155	253	-0.3506			
259.27	0.158	253.2	-0.3506			
259.30	0.157	253.3	-0.3444			
259.33	0.157	253.3	-0.3417			
259.37	0.159	253.4	-0.3373			
259.40	0.162	253.6	-0.3329			
259.43	0.164	253.7	-0.3284			
259.47	0.165	253.8	-0.3249			
259.50	0.167	254	-0.3249			
259.53	0.169	254.1	-0.3204			
259.57	0.169	254.1	-0.3169			
259.60	0.17	254.2	-0.3124			
259.63	0.172	254.4	-0.308			
259.67	0.174	254.5	-0.3036			
259.70	0.175	254.6	-0.3			
259.73	0.177	254.7	-0.3			
259.77	0.178	254.9	-0.2956			
259.80	0.178	254.9	-0.2903			
259.83	0.18	255	-0.2867			
259.87	0.181	255.1	-0.2832			
259.90	0.183	255.2	-0.2787			
259.93	0.184	255.3	-0.2752			
259.97	0.186	255.5	-0.2752			
260.00	0.187	255.6	-0.2716			
260.03	0.187	255.6	-0.2681			
260.07	0.188	255.7	-0.2645			
260.10	0.19	255.8	-0.261			
260.13	0.192	255.9	-0.2565			
260.17	0.193	256.1	-0.253			
260.22	0.194	256.2	-0.2494			
260.25	0.194	256.2	-0.2468			
260.27	0.196	256.4	-0.2441			
260.30	0.198	256.5	-0.2441			
260.33	0.199	256.6	-0.2397			
260.37	0.199	256.6	-0.237			
260.40	0.2	256.7	-0.2343			
260.43	0.201	256.8	-0.2308			
260.47	0.203	256.9	-0.2272			
260.50	0.203	257	-0.2246			
260.53	0.205	257.1	-0.2246			
260.57	0.206	257.2	-0.2219			
260.60	0.206	257.2	-0.2184			
260.63	0.207	257.3	-0.2157			
260.67	0.208	257.4	-0.2121			
260.70	0.209	257.5	-0.2095			
260.73	0.21	257.6	-0.2068			
260.77	0.212	257.7	-0.2068			
260.80	0.216	257.8	-0.2033			
260.83	0.216	257.8	-0.1988			
260.87	0.213	257.9	-0.1988			
260.90	0.212	257.9	-0.1971			
260.93	0.215	258.1	-0.1935			
260.97	0.216	258.2	-0.1917			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
261.00	0.217	258.3	-0.1917			
261.03	0.218	258.4	-0.1891			
261.07	0.218	258.4	-0.1864			
261.10	0.218	258.5	-0.1837			
261.13	0.219	258.5	-0.182			
261.17	0.221	258.6	-0.1793			
261.20	0.221	258.7	-0.1784			
261.23	0.222	258.8	-0.1784			
261.27	0.223	258.9	-0.1758			
261.30	0.223	258.9	-0.174			
261.33	0.223	259	-0.1722			
261.37	0.224	259.1	-0.1695			
261.40	0.225	259.1	-0.1678			
261.43	0.225	259.2	-0.166			
261.47	0.226	259.3	-0.166			
261.50	0.227	259.4	-0.1642			
261.53	0.227	259.4	-0.1624			
261.57	0.229	259.5	-0.1589			
261.60	0.229	259.5	-0.158			
261.63	0.227	259.6	-0.1571			
261.68	0.229	259.7	-0.1553			
261.72	0.229	259.7	-0.1544			
261.73	0.229	259.8	-0.1527			
261.77	0.229	259.9	-0.1509			
261.80	0.231	260	-0.1491			
261.83	0.231	260	-0.1491			
261.87	0.231	260	-0.1482			
261.90	0.231	260.1	-0.1473			
261.93	0.231	260.2	-0.1456			
261.97	0.232	260.2	-0.1447			
262.00	0.232	260.3	-0.1438			
262.03	0.232	260.3	-0.142			
262.07	0.233	260.4	-0.142			
262.10	0.233	260.4	-0.1411			
262.13	0.233	260.5	-0.1402			
262.17	0.233	260.5	-0.1394			
262.20	0.233	260.6	-0.1385			
262.23	0.233	260.6	-0.1376			
262.27	0.233	260.7	-0.1367			
262.30	0.233	260.7	-0.1367			
262.33	0.233	260.7	-0.1358			
262.37	0.233	260.8	-0.1349			
262.40	0.233	260.9	-0.1349			
262.43	0.233	260.9	-0.134			
262.47	0.233	260.9	-0.1331			
262.50	0.233	261	-0.1331			
262.53	0.233	261	-0.1331			
262.57	0.233	261	-0.1323			
262.60	0.233	261.1	-0.1314			
262.63	0.233	261.1	-0.1314			
262.67	0.236	261.2	-0.1296			
262.70	0.231	261.2	-0.1314			
262.73	0.231	261.2	-0.1305			
262.77	0.231	261.3	-0.1305			
262.80	0.231	261.3	-0.1305			
262.83	0.232	261.3	-0.1296			
262.87	0.232	261.4	-0.1287			
262.90	0.232	261.4	-0.1287			
262.93	0.231	261.5	-0.1287			
262.97	0.231	261.5	-0.1287			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
263.00	0.23	261.5	-0.1287			
263.03	0.23	261.5	-0.1287			
263.07	0.23	261.6	-0.1287			
263.12	0.229	261.6	-0.1287			
263.15	0.229	261.6	-0.1287			
263.17	0.229	261.7	-0.1287			
263.20	0.231	261.7	-0.1278			
263.23	0.229	261.7	-0.1278			
263.27	0.228	261.8	-0.1287			
263.30	0.225	261.7	-0.1296			
263.33	0.225	261.8	-0.1296			
263.37	0.225	261.8	-0.1296			
263.40	0.225	261.8	-0.1296			
263.43	0.225	261.9	-0.1287			
263.47	0.226	261.9	-0.1287			
263.50	0.222	261.9	-0.1296			
263.53	0.222	261.9	-0.1305			
263.57	0.222	261.9	-0.1305			
263.60	0.222	261.9	-0.1305			
263.63	0.222	262	-0.1305			
263.67	0.221	262	-0.1305			
263.70	0.221	262	-0.1305			
263.73	0.219	262	-0.1314			
263.77	0.217	262	-0.1314			
263.80	0.217	262	-0.1314			
263.83	0.217	262	-0.1314			
263.87	0.216	262	-0.1323			
263.90	0.216	262.1	-0.1323			
263.93	0.214	262	-0.1331			
263.97	0.214	262.1	-0.1323			
264.00	0.212	262.1	-0.134			
264.03	0.212	262.1	-0.134			
264.07	0.212	262.1	-0.134			
264.10	0.21	262.1	-0.1349			
264.13	0.21	262.1	-0.1349			
264.17	0.208	262.1	-0.1358			
264.20	0.207	262.1	-0.1358			
264.23	0.206	262.1	-0.1367			
264.27	0.207	262.1	-0.1367			
264.30	0.207	262.1	-0.1367			
264.33	0.203	262.1	-0.1385			
264.37	0.201	262	-0.1394			
264.40	0.201	262.1	-0.1394			
264.43	0.203	262.1	-0.1385			
264.47	0.2	262.1	-0.1402			
264.50	0.196	262	-0.1402			
264.53	0.196	262	-0.142			
264.58	0.196	262	-0.142			
264.62	0.195	262	-0.142			
264.63	0.195	262	-0.1429			
264.67	0.193	262	-0.1438			
264.70	0.193	262	-0.1438			
264.73	0.19	262	-0.1447			
264.77	0.189	262	-0.1465			
264.80	0.186	261.9	-0.1473			
264.83	0.185	261.9	-0.1473			
264.87	0.185	261.9	-0.1482			
264.90	0.185	261.9	-0.1482			
264.93	0.183	261.9	-0.1491			
264.97	0.181	261.9	-0.15			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
265.00	0.18	261.8	-0.1509		
265.03	0.178	261.8	-0.1527		
265.07	0.178	261.8	-0.1527		
265.10	0.178	261.8	-0.1527		
265.13	0.174	261.7	-0.1544		
265.17	0.172	261.7	-0.1553		
265.20	0.172	261.7	-0.1562		
265.23	0.171	261.7	-0.1571		
265.27	0.169	261.6	-0.1589		
265.30	0.169	261.6	-0.1589		
265.33	0.169	261.6	-0.1589		
265.37	0.165	261.5	-0.1616		
265.40	0.163	261.5	-0.1624		
265.43	0.161	261.5	-0.1633		
265.47	0.161	261.4	-0.1642		
265.50	0.159	261.4	-0.166		
265.53	0.157	261.4	-0.166		
265.57	0.157	261.4	-0.166		
265.60	0.156	261.4	-0.1678		
265.63	0.153	261.3	-0.1695		
265.67	0.149	261.2	-0.1722		
265.70	0.149	261.2	-0.1722		
265.73	0.148	261.2	-0.1731		
265.77	0.145	261.1	-0.1731		
265.80	0.145	261.1	-0.1749		
265.83	0.147	261.1	-0.1749		
265.87	0.143	261	-0.1775		
265.90	0.14	261	-0.1784		
265.93	0.139	260.9	-0.1811		
265.97	0.134	260.8	-0.1829		
266.00	0.134	260.8	-0.1829		
266.05	0.132	260.8	-0.1846		
266.08	0.132	260.7	-0.1855		
266.10	0.131	260.7	-0.1855		
266.13	0.127	260.7	-0.1864		
266.17	0.127	260.6	-0.1891		
266.20	0.125	260.5	-0.1908		
266.23	0.123	260.5	-0.1926		
266.27	0.121	260.4	-0.1944		
266.30	0.12	260.4	-0.1962		
266.33	0.118	260.3	-0.1962		
266.37	0.116	260.3	-0.1971		
266.40	0.116	260.3	-0.1988		
266.43	0.112	260.2	-0.2024		
266.47	0.11	260.1	-0.2042		
266.50	0.109	260	-0.2059		
266.53	0.107	260	-0.2077		
266.57	0.105	259.9	-0.2077		
266.60	0.105	259.9	-0.2086		
266.63	0.103	259.9	-0.2113		
266.67	0.1	259.8	-0.2139		
266.70	0.096	259.6	-0.2175		
266.73	0.095	259.6	-0.2192		
266.77	0.093	259.5	-0.221		
266.80	0.091	259.4	-0.221		
266.83	0.091	259.4	-0.2228		
266.87	0.089	259.4	-0.2246		
266.90	0.086	259.3	-0.2281		
266.93	0.083	259.2	-0.2299		
266.97	0.083	259.1	-0.2317		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
267.00	0.081	259.1	-0.2334			
267.03	0.079	259	-0.2334			
267.07	0.079	259	-0.2361			
267.10	0.074	258.9	-0.2406			
267.13	0.072	258.7	-0.2432			
267.17	0.07	258.7	-0.245			
267.20	0.068	258.6	-0.2477			
267.23	0.068	258.5	-0.2503			
267.27	0.065	258.4	-0.2503			
267.30	0.065	258.4	-0.2521			
267.33	0.062	258.3	-0.2548			
267.37	0.057	258.2	-0.2592			
267.40	0.056	258.1	-0.2619			
267.43	0.055	258	-0.2636			
267.48	0.052	257.9	-0.2663			
267.52	0.053	257.8	-0.2681			
267.53	0.048	257.7	-0.2716			
267.57	0.048	257.7	-0.2725			
267.60	0.044	257.5	-0.2725			
267.63	0.043	257.5	-0.2761			
267.67	0.043	257.5	-0.2787			
267.70	0.04	257.3	-0.284			
267.73	0.035	257.2	-0.2876			
267.77	0.034	257.1	-0.2894			
267.80	0.033	257	-0.2929			
267.83	0.03	256.9	-0.2929			
267.87	0.027	256.9	-0.2965			
267.90	0.027	256.8	-0.2991			
267.93	0.026	256.7	-0.3018			
267.97	0.022	256.6	-0.3053			
268.00	0.021	256.5	-0.308			
268.03	0.019	256.4	-0.3124			
268.07	0.015	256.2	-0.3124			
268.10	0.014	256.2	-0.316			
268.13	0.014	256.1	-0.3187			
268.17	0.012	256	-0.3231			
268.20	0.008	255.9	-0.3267			
268.23	0.006	255.8	-0.3302			
268.27	0.004	255.6	-0.3338			
268.30	0	255.5	-0.3338			
268.33	-0.001	255.5	-0.3382			
268.37	-0.001	255.4	-0.3409			
268.40	-0.003	255.2	-0.3453			
268.43	-0.006	255.1	-0.348			
268.47	-0.008	255	-0.3515			
268.50	-0.01	254.9	-0.3559			
268.53	-0.013	254.7	-0.3559			
268.57	-0.015	254.7	-0.3604			
268.60	-0.015	254.6	-0.363			
268.63	-0.017	254.5	-0.3684			
268.67	-0.021	254.3	-0.3719			
268.70	-0.021	254.2	-0.3755			
268.73	-0.024	254.1	-0.3799			
268.77	-0.028	253.9	-0.3799			
268.80	-0.03	253.9	-0.3843			
268.83	-0.03	253.8	-0.3879			
268.87	-0.031	253.6	-0.3914			
268.90	-0.034	253.5	-0.3959			
268.95	-0.035	253.4	-0.3994			
268.98	-0.036	253.3	-0.403			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
269.00	-0.041	253.1	-0.4065		
269.03	-0.042	252.9	-0.4101		
269.07	-0.044	252.8	-0.4154		
269.10	-0.048	252.6	-0.4154		
269.13	-0.049	252.6	-0.4199		
269.17	-0.049	252.5	-0.4234		
269.20	-0.051	252.4	-0.4278		
269.23	-0.055	252.2	-0.4332		
269.27	-0.055	252.1	-0.4367		
269.30	-0.058	251.9	-0.4412		
269.33	-0.061	251.8	-0.4412		
269.37	-0.062	251.8	-0.4456		
269.40	-0.062	251.6	-0.45		
269.43	-0.065	251.5	-0.4554		
269.47	-0.067	251.3	-0.4598		
269.50	-0.069	251.2	-0.4642		
269.53	-0.072	251	-0.4696		
269.57	-0.074	250.9	-0.4696		
269.60	-0.076	250.9	-0.4749		
269.63	-0.076	250.7	-0.4793		
269.67	-0.078	250.6	-0.4847		
269.70	-0.082	250.4	-0.4891		
269.73	-0.083	250.3	-0.4935		
269.77	-0.084	250.1	-0.498		
269.80	-0.088	249.9	-0.498		
269.83	-0.089	249.9	-0.5042		
269.87	-0.089	249.8	-0.5086		
269.90	-0.091	249.6	-0.5131		
269.93	-0.094	249.4	-0.5184		
269.97	-0.096	249.3	-0.5237		
270.00	-0.097	249.1	-0.529		
270.03	-0.1	248.9	-0.529		
270.07	-0.102	248.9	-0.5344		
270.10	-0.102	248.8	-0.5388		
270.13	-0.104	248.7	-0.5441		
270.17	-0.107	248.5	-0.5494		
270.20	-0.108	248.4	-0.5539		
270.23	-0.11	248.2	-0.5592		
270.27	-0.113	248	-0.5592		
270.30	-0.115	248	-0.5645		
270.33	-0.115	247.9	-0.569		
270.38	-0.117	247.6	-0.5743		
270.42	-0.119	247.6	-0.5779		
270.43	-0.119	247.4	-0.5832		
270.47	-0.121	247.2	-0.5885		
270.50	-0.125	247.1	-0.5929		
270.53	-0.124	246.9	-0.5974		
270.57	-0.126	246.8	-0.6018		
270.60	-0.13	246.6	-0.6018		
270.63	-0.131	246.6	-0.608		
270.67	-0.131	246.5	-0.6125		
270.70	-0.133	246.3	-0.6178		
270.73	-0.135	246.1	-0.6231		
270.77	-0.136	246	-0.6276		
270.80	-0.138	245.8	-0.6329		
270.83	-0.141	245.6	-0.6329		
270.87	-0.142	245.6	-0.6373		
270.90	-0.142	245.5	-0.6418		
270.93	-0.143	245.3	-0.6462		
270.97	-0.147	245.1	-0.6515		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
271.00	-0.146	245	-0.6551		
271.03	-0.148	244.8	-0.6604		
271.07	-0.151	244.6	-0.6604		
271.10	-0.152	244.6	-0.6657		
271.13	-0.152	244.4	-0.6702		
271.17	-0.153	244.3	-0.6746		
271.20	-0.157	244.1	-0.6799		
271.23	-0.157	244	-0.6844		
271.27	-0.158	243.8	-0.6888		
271.30	-0.161	243.6	-0.6888		
271.33	-0.162	243.6	-0.6941		
271.37	-0.162	243.5	-0.6977		
271.40	-0.164	243.3	-0.7021		
271.43	-0.166	243.2	-0.7066		
271.47	-0.167	243	-0.711		
271.50	-0.168	242.9	-0.7154		
271.53	-0.17	242.7	-0.7154		
271.57	-0.172	242.7	-0.719		
271.60	-0.172	242.5	-0.7234		
271.63	-0.172	242.4	-0.727		
271.67	-0.175	242.2	-0.7314		
271.70	-0.175	242.1	-0.735		
271.73	-0.177	241.9	-0.7403		
271.77	-0.179	241.8	-0.7403		
271.80	-0.179	241.8	-0.7447		
271.85	-0.18	241.5	-0.7518		
271.88	-0.181	241.4	-0.7518		
271.90	-0.183	241.4	-0.7554		
271.93	-0.183	241.2	-0.7589		
271.97	-0.184	241	-0.7634		
272.00	-0.186	240.9	-0.7669		
272.03	-0.187	240.8	-0.7714		
272.07	-0.188	240.6	-0.774		
272.10	-0.19	240.4	-0.774		
272.13	-0.19	240.4	-0.7785		
272.17	-0.19	240.3	-0.7811		
272.20	-0.191	240.2	-0.7847		
272.23	-0.193	240.1	-0.7882		
272.27	-0.194	239.9	-0.7918		
272.30	-0.195	239.8	-0.7953		
272.33	-0.196	239.7	-0.7953		
272.37	-0.195	239.7	-0.7989		
272.40	-0.195	239.6	-0.8007		
272.43	-0.198	239.4	-0.806		
272.47	-0.201	239.2	-0.8095		
272.50	-0.2	239.1	-0.8113		
272.53	-0.201	239	-0.814		
272.57	-0.202	238.9	-0.814		
272.60	-0.202	238.9	-0.8166		
272.63	-0.202	238.8	-0.8193		
272.67	-0.203	238.7	-0.822		
272.70	-0.205	238.5	-0.8255		
272.73	-0.206	238.4	-0.8282		
272.77	-0.206	238.3	-0.8299		
272.80	-0.207	238.2	-0.8299		
272.83	-0.208	238.2	-0.8326		
272.87	-0.208	238.1	-0.8353		
272.90	-0.208	237.9	-0.837		
272.93	-0.21	237.8	-0.8397		
272.97	-0.21	237.7	-0.8424		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
273.00	-0.21	237.6	-0.845		
273.03	-0.211	237.5	-0.845		
273.07	-0.212	237.5	-0.8468		
273.10	-0.212	237.4	-0.8495		
273.13	-0.212	237.3	-0.8512		
273.17	-0.213	237.2	-0.853		
273.20	-0.214	237.1	-0.8557		
273.23	-0.214	236.9	-0.8575		
273.27	-0.214	236.9	-0.8575		
273.32	-0.215	236.8	-0.8601		
273.33	-0.216	236.7	-0.8619		
273.37	-0.216	236.6	-0.8619		
273.40	-0.216	236.6	-0.8637		
273.43	-0.216	236.5	-0.8654		
273.47	-0.217	236.4	-0.8672		
273.50	-0.217	236.3	-0.869		
273.53	-0.217	236.2	-0.8699		
273.57	-0.218	236.1	-0.8717		
273.60	-0.218	236.1	-0.8717		
273.63	-0.218	236.1	-0.8726		
273.67	-0.218	235.9	-0.8743		
273.70	-0.218	235.9	-0.8761		
273.73	-0.219	235.8	-0.877		
273.77	-0.219	235.7	-0.8779		
273.80	-0.219	235.6	-0.8797		
273.83	-0.219	235.6	-0.8797		
273.87	-0.22	235.6	-0.8805		
273.90	-0.22	235.5	-0.8814		
273.93	-0.219	235.5	-0.8823		
273.97	-0.22	235.4	-0.8841		
274.00	-0.219	235.3	-0.885		
274.03	-0.22	235.3	-0.8859		
274.07	-0.22	235.2	-0.8859		
274.10	-0.22	235.2	-0.8868		
274.13	-0.22	235.1	-0.8876		
274.17	-0.22	235.1	-0.8876		
274.20	-0.219	235.1	-0.8885		
274.23	-0.219	235	-0.8894		
274.27	-0.219	234.9	-0.8903		
274.30	-0.219	234.9	-0.8903		
274.33	-0.219	234.9	-0.8903		
274.37	-0.219	234.9	-0.8912		
274.40	-0.219	234.8	-0.8921		
274.43	-0.219	234.8	-0.8921		
274.47	-0.218	234.8	-0.8921		
274.50	-0.218	234.7	-0.893		
274.53	-0.218	234.7	-0.893		
274.57	-0.218	234.7	-0.893		
274.60	-0.218	234.7	-0.8939		
274.63	-0.217	234.6	-0.8939		
274.67	-0.217	234.6	-0.8939		
274.70	-0.217	234.6	-0.8939		
274.75	-0.216	234.6	-0.8939		
274.78	-0.216	234.5	-0.8939		
274.80	-0.215	234.5	-0.8939		
274.83	-0.215	234.5	-0.8939		
274.87	-0.215	234.5	-0.8939		
274.90	-0.214	234.5	-0.8939		
274.93	-0.214	234.5	-0.8939		
274.97	-0.214	234.4	-0.8939		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
275.00	-0.213	234.4	-0.8939		
275.03	-0.212	234.4	-0.8939		
275.07	-0.212	234.4	-0.8939		
275.10	-0.211	234.4	-0.8939		
275.13	-0.21	234.4	-0.8939		
275.17	-0.21	234.4	-0.8939		
275.20	-0.21	234.4	-0.893		
275.23	-0.209	234.4	-0.893		
275.27	-0.208	234.4	-0.893		
275.30	-0.208	234.4	-0.8921		
275.33	-0.207	234.4	-0.8921		
275.37	-0.206	234.4	-0.8921		
275.40	-0.206	234.4	-0.8912		
275.43	-0.205	234.4	-0.8912		
275.47	-0.204	234.5	-0.8912		
275.50	-0.203	234.5	-0.8903		
275.53	-0.203	234.5	-0.8903		
275.57	-0.201	234.5	-0.8903		
275.60	-0.201	234.5	-0.8894		
275.63	-0.201	234.5	-0.8894		
275.67	-0.2	234.5	-0.8885		
275.70	-0.199	234.5	-0.8885		
275.73	-0.198	234.6	-0.8876		
275.77	-0.197	234.6	-0.8868		
275.80	-0.195	234.6	-0.8868		
275.83	-0.194	234.6	-0.8859		
275.87	-0.194	234.6	-0.8859		
275.90	-0.194	234.7	-0.885		
275.93	-0.192	234.7	-0.885		
275.97	-0.191	234.7	-0.8841		
276.00	-0.19	234.8	-0.8832		
276.03	-0.189	234.8	-0.8832		
276.07	-0.188	234.8	-0.8823		
276.10	-0.188	234.8	-0.8814		
276.13	-0.187	234.9	-0.8814		
276.17	-0.184	234.9	-0.8797		
276.22	-0.184	235	-0.8797		
276.25	-0.184	235	-0.8788		
276.27	-0.182	235	-0.8779		
276.30	-0.18	235.1	-0.877		
276.33	-0.18	235.1	-0.8761		
276.37	-0.178	235.2	-0.8761		
276.40	-0.177	235.2	-0.8752		
276.43	-0.177	235.2	-0.8743		
276.47	-0.175	235.3	-0.8734		
276.50	-0.174	235.3	-0.8726		
276.53	-0.172	235.4	-0.8717		
276.57	-0.171	235.4	-0.8699		
276.60	-0.169	235.5	-0.8699		
276.63	-0.168	235.5	-0.869		
276.67	-0.168	235.6	-0.8681		
276.70	-0.166	235.6	-0.8672		
276.73	-0.165	235.7	-0.8654		
276.77	-0.163	235.7	-0.8646		
276.80	-0.162	235.8	-0.8646		
276.83	-0.16	235.9	-0.8646		
276.87	-0.158	235.9	-0.8628		
276.90	-0.158	235.9	-0.8619		
276.93	-0.158	236	-0.8601		
276.97	-0.155	236.1	-0.8592		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
277.00	-0.154	236.2	-0.8583		
277.03	-0.152	236.3	-0.8566		
277.07	-0.15	236.4	-0.8566		
277.10	-0.148	236.4	-0.8548		
277.13	-0.148	236.5	-0.8539		
277.17	-0.147	236.5	-0.8521		
277.20	-0.145	236.6	-0.8512		
277.23	-0.143	236.7	-0.8495		
277.27	-0.142	236.8	-0.8486		
277.30	-0.139	236.9	-0.8486		
277.33	-0.138	236.9	-0.8468		
277.37	-0.138	236.9	-0.845		
277.40	-0.137	237	-0.8441		
277.43	-0.133	237.2	-0.8415		
277.47	-0.132	237.2	-0.8406		
277.50	-0.13	237.3	-0.8388		
277.53	-0.128	237.4	-0.8388		
277.57	-0.127	237.4	-0.837		
277.60	-0.127	237.5	-0.8353		
277.65	-0.123	237.7	-0.8326		
277.68	-0.123	237.7	-0.8317		
277.70	-0.123	237.8	-0.8308		
277.73	-0.12	237.9	-0.8273		
277.77	-0.117	238	-0.8255		
277.80	-0.116	238.1	-0.8246		
277.83	-0.115	238.2	-0.8228		
277.87	-0.111	238.3	-0.8228		
277.90	-0.111	238.3	-0.8202		
277.93	-0.111	238.4	-0.8184		
277.97	-0.107	238.6	-0.8157		
278.00	-0.104	238.7	-0.8131		
278.03	-0.103	238.8	-0.8113		
278.07	-0.102	238.9	-0.8095		
278.10	-0.099	239	-0.8095		
278.13	-0.097	239	-0.8069		
278.17	-0.097	239.1	-0.8051		
278.20	-0.096	239.2	-0.8033		
278.23	-0.092	239.3	-0.8007		
278.27	-0.092	239.4	-0.7989		
278.30	-0.09	239.6	-0.7962		
278.33	-0.085	239.7	-0.7962		
278.37	-0.084	239.7	-0.7927		
278.40	-0.084	239.8	-0.7918		
278.43	-0.083	239.9	-0.7882		
278.47	-0.08	240.1	-0.7856		
278.50	-0.078	240.2	-0.7838		
278.53	-0.076	240.3	-0.7811		
278.57	-0.073	240.4	-0.7811		
278.60	-0.072	240.4	-0.7785		
278.63	-0.072	240.5	-0.7767		
278.67	-0.07	240.6	-0.7731		
278.70	-0.066	240.8	-0.7705		
278.73	-0.065	240.9	-0.7687		
278.77	-0.063	241	-0.7651		
278.80	-0.059	241.2	-0.7651		
278.83	-0.058	241.2	-0.7616		
278.87	-0.058	241.3	-0.7598		
278.90	-0.057	241.5	-0.7572		
278.93	-0.052	241.6	-0.7527		
278.97	-0.05	241.8	-0.7509		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
279.00	-0.05	241.9	-0.7483		
279.03	-0.045	242	-0.7483		
279.07	-0.045	242	-0.7438		
279.12	-0.044	242.3	-0.7385		
279.15	-0.04	242.4	-0.7385		
279.17	-0.039	242.4	-0.7359		
279.20	-0.039	242.5	-0.7332		
279.23	-0.037	242.7	-0.7296		
279.27	-0.033	242.9	-0.7261		
279.30	-0.032	243	-0.7234		
279.33	-0.03	243.1	-0.7199		
279.37	-0.026	243.3	-0.7199		
279.40	-0.024	243.3	-0.7163		
279.43	-0.024	243.4	-0.7137		
279.47	-0.022	243.6	-0.7101		
279.50	-0.019	243.7	-0.7066		
279.53	-0.017	243.9	-0.703		
279.57	-0.016	244	-0.7003		
279.60	-0.012	244.2	-0.7003		
279.63	-0.01	244.2	-0.6968		
279.67	-0.01	244.3	-0.6932		
279.70	-0.009	244.4	-0.6888		
279.73	-0.004	244.7	-0.6853		
279.77	-0.004	244.8	-0.6826		
279.80	-0.002	244.9	-0.6782		
279.83	0.003	245.1	-0.6782		
279.87	0.004	245.1	-0.6737		
279.90	0.004	245.2	-0.6702		
279.93	0.006	245.4	-0.6666		
279.97	0.009	245.6	-0.6631		
280.00	0.011	245.7	-0.6595		
280.03	0.013	245.9	-0.656		
280.07	0.017	246.1	-0.656		
280.10	0.018	246.1	-0.6515		
280.13	0.018	246.2	-0.648		
280.17	0.02	246.3	-0.6435		
280.20	0.024	246.5	-0.6391		
280.23	0.025	246.7	-0.6356		
280.27	0.027	246.8	-0.632		
280.30	0.031	247	-0.632		
280.33	0.032	247	-0.6276		
280.37	0.032	247.1	-0.624		
280.40	0.034	247.3	-0.6196		
280.43	0.037	247.4	-0.6151		
280.47	0.039	247.6	-0.6116		
280.50	0.041	247.8	-0.6063		
280.55	0.046	247.9	-0.6018		
280.58	0.045	248	-0.5992		
280.60	0.047	248.2	-0.5956		
280.63	0.05	248.3	-0.5956		
280.67	0.053	248.3	-0.5912		
280.70	0.053	248.5	-0.5867		
280.73	0.053	248.6	-0.5832		
280.77	0.057	248.8	-0.5779		
280.80	0.06	248.9	-0.5743		
280.83	0.061	249.1	-0.5699		
280.87	0.064	249.2	-0.5699		
280.90	0.067	249.2	-0.5645		
280.93	0.067	249.4	-0.5601		
280.97	0.068	249.5	-0.5566		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
281.00	0.071	249.7	-0.5521			
281.03	0.073	249.9	-0.5468			
281.07	0.074	250	-0.5423			
281.10	0.078	250.2	-0.5423			
281.13	0.08	250.2	-0.537			
281.17	0.08	250.3	-0.5326			
281.20	0.082	250.5	-0.5281			
281.23	0.085	250.7	-0.5228			
281.27	0.087	250.8	-0.5184			
281.30	0.088	250.9	-0.5139			
281.33	0.091	251.1	-0.5139			
281.37	0.093	251.1	-0.5086			
281.40	0.093	251.3	-0.5033			
281.43	0.094	251.4	-0.4989			
281.47	0.098	251.6	-0.4935			
281.50	0.1	251.7	-0.4891			
281.53	0.101	251.9	-0.4847			
281.57	0.104	252	-0.4847			
281.60	0.107	252	-0.4793			
281.63	0.107	252.2	-0.474			
281.67	0.108	252.3	-0.4704			
281.70	0.11	252.5	-0.4651			
281.73	0.113	252.6	-0.4598			
281.77	0.114	252.8	-0.4554			
281.80	0.117	252.9	-0.4554			
281.83	0.119	252.9	-0.45			
281.87	0.119	253.1	-0.4456			
281.90	0.12	253.3	-0.4412			
281.93	0.123	253.4	-0.4358			
281.97	0.125	253.6	-0.4305			
282.02	0.126	253.7	-0.427			
282.05	0.127	253.9	-0.4234			
282.07	0.13	254	-0.4181			
282.10	0.131	254.1	-0.4145			
282.13	0.134	254.3	-0.4145			
282.17	0.136	254.3	-0.4092			
282.20	0.136	254.4	-0.4057			
282.23	0.137	254.6	-0.4012			
282.27	0.141	254.7	-0.3959			
282.30	0.141	254.8	-0.3914			
282.33	0.143	255	-0.387			
282.37	0.146	255.2	-0.387			
282.40	0.147	255.2	-0.3808			
282.43	0.147	255.3	-0.3772			
282.47	0.148	255.4	-0.3728			
282.50	0.151	255.5	-0.3675			
282.53	0.153	255.7	-0.363			
282.57	0.154	255.8	-0.3586			
282.60	0.157	256	-0.3586			
282.63	0.158	256	-0.3542			
282.67	0.158	256.1	-0.3497			
282.70	0.16	256.2	-0.3453			
282.73	0.162	256.4	-0.3409			
282.77	0.164	256.5	-0.3364			
282.80	0.165	256.6	-0.3311			
282.83	0.167	256.8	-0.3311			
282.87	0.168	256.8	-0.3267			
282.90	0.168	256.9	-0.3231			
282.93	0.17	257	-0.3187			
282.97	0.172	257.2	-0.3142			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
283.00	0.173	257.3	-0.3107			
283.03	0.175	257.4	-0.3062			
283.07	0.177	257.5	-0.3062			
283.10	0.178	257.5	-0.3018			
283.13	0.178	257.6	-0.2982			
283.17	0.179	257.7	-0.2947			
283.20	0.181	257.9	-0.2894			
283.23	0.183	258	-0.2858			
283.27	0.184	258.1	-0.2823			
283.30	0.186	258.3	-0.2823			
283.33	0.188	258.3	-0.2778			
283.37	0.188	258.4	-0.2743			
283.40	0.187	258.5	-0.2716			
283.43	0.19	258.6	-0.2672			
283.48	0.191	258.7	-0.2636			
283.52	0.192	258.8	-0.261			
283.53	0.194	259	-0.2565			
283.57	0.195	259.1	-0.2539			
283.60	0.196	259.2	-0.2503			
283.63	0.197	259.3	-0.2503			
283.67	0.199	259.3	-0.2468			
283.70	0.199	259.4	-0.2432			
283.73	0.2	259.5	-0.2406			
283.77	0.202	259.6	-0.237			
283.80	0.203	259.7	-0.2334			
283.83	0.203	259.8	-0.2308			
283.87	0.205	259.9	-0.2308			
283.90	0.207	259.9	-0.2272			
283.93	0.207	260.1	-0.2237			
283.97	0.207	260.2	-0.2219			
284.00	0.208	260.3	-0.2184			
284.03	0.209	260.4	-0.2157			
284.07	0.21	260.5	-0.213			
284.10	0.212	260.6	-0.213			
284.13	0.213	260.6	-0.2095			
284.17	0.213	260.7	-0.2068			
284.20	0.213	260.8	-0.2042			
284.23	0.214	260.8	-0.2024			
284.27	0.215	260.9	-0.1997			
284.30	0.216	261	-0.1971			
284.33	0.217	261.1	-0.1971			
284.37	0.22	261.1	-0.1935			
284.40	0.22	261.3	-0.1908			
284.43	0.218	261.3	-0.19			
284.47	0.218	261.4	-0.1873			
284.50	0.22	261.5	-0.1855			
284.53	0.221	261.6	-0.1829			
284.57	0.222	261.7	-0.1829			
284.60	0.223	261.7	-0.1802			
284.63	0.223	261.8	-0.1784			
284.67	0.223	261.9	-0.1775			
284.70	0.224	262	-0.1758			
284.73	0.225	262	-0.1731			
284.77	0.225	262.1	-0.1713			
284.80	0.226	262.2	-0.1713			
284.83	0.227	262.2	-0.1695			
284.87	0.227	262.3	-0.1678			
284.92	0.227	262.5	-0.166			
284.95	0.228	262.5	-0.1642			
284.97	0.228	262.5	-0.1624			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
285.00	0.228	262.6	-0.1616			
285.03	0.229	262.7	-0.1598			
285.07	0.23	262.8	-0.158			
285.10	0.23	262.8	-0.1553			
285.13	0.23	262.9	-0.1553			
285.17	0.231	262.9	-0.1553			
285.20	0.231	263	-0.1536			
285.23	0.231	263	-0.1527			
285.27	0.232	263.1	-0.1509			
285.30	0.232	263.2	-0.15			
285.33	0.232	263.2	-0.1491			
285.37	0.231	263.3	-0.1491			
285.40	0.232	263.3	-0.1482			
285.43	0.232	263.3	-0.1473			
285.47	0.232	263.4	-0.1465			
285.50	0.233	263.5	-0.1456			
285.53	0.233	263.5	-0.1438			
285.57	0.233	263.6	-0.1438			
285.60	0.235	263.7	-0.1438			
285.63	0.234	263.7	-0.1411			
285.67	0.234	263.7	-0.1411			
285.70	0.232	263.7	-0.1411			
285.73	0.232	263.8	-0.1411			
285.77	0.233	263.9	-0.1402			
285.80	0.233	263.9	-0.1394			
285.83	0.233	264	-0.1394			
285.87	0.233	264	-0.1385			
285.90	0.233	264	-0.1376			
285.93	0.233	264.1	-0.1376			
285.97	0.233	264.1	-0.1376			
286.00	0.233	264.1	-0.1367			
286.03	0.233	264.2	-0.1358			
286.07	0.232	264.2	-0.1358			
286.10	0.232	264.2	-0.1358			
286.13	0.232	264.3	-0.1358			
286.17	0.234	264.3	-0.1349			
286.20	0.231	264.3	-0.1349			
286.23	0.231	264.4	-0.1349			
286.27	0.231	264.4	-0.1349			
286.30	0.231	264.4	-0.1349			
286.33	0.231	264.4	-0.1349			
286.38	0.23	264.5	-0.134			
286.42	0.23	264.5	-0.134			
286.43	0.229	264.5	-0.134			
286.47	0.229	264.6	-0.134			
286.50	0.229	264.6	-0.134			
286.53	0.228	264.6	-0.134			
286.57	0.228	264.7	-0.134			
286.60	0.227	264.7	-0.134			
286.63	0.227	264.7	-0.134			
286.67	0.226	264.7	-0.134			
286.70	0.226	264.7	-0.1349			
286.73	0.226	264.8	-0.1349			
286.77	0.225	264.8	-0.1349			
286.80	0.223	264.8	-0.1349			
286.83	0.224	264.8	-0.1349			
286.87	0.223	264.8	-0.1349			
286.90	0.222	264.8	-0.1349			
286.93	0.222	264.9	-0.1358			
286.97	0.221	264.9	-0.1358			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
287.00	0.221	264.9	-0.1358			
287.03	0.221	264.9	-0.1358			
287.07	0.22	264.9	-0.1376			
287.10	0.216	264.9	-0.1376			
287.13	0.216	264.9	-0.1385			
287.17	0.216	264.9	-0.1385			
287.20	0.218	265	-0.1367			
287.23	0.217	265	-0.1385			
287.27	0.213	265	-0.1385			
287.30	0.215	265	-0.1385			
287.33	0.214	265	-0.1385			
287.37	0.211	265	-0.1385			
287.40	0.211	265	-0.1402			
287.43	0.211	265	-0.1402			
287.47	0.209	265	-0.1411			
287.50	0.206	265	-0.142			
287.53	0.209	265	-0.1411			
287.57	0.208	265	-0.1411			
287.60	0.203	265	-0.1429			
287.63	0.203	265	-0.1438			
287.67	0.203	265	-0.1438			
287.70	0.203	265	-0.1438			
287.73	0.203	265	-0.1438			
287.77	0.201	265	-0.1456			
287.82	0.198	264.9	-0.1465			
287.85	0.197	264.9	-0.1473			
287.87	0.197	264.9	-0.1473			
287.90	0.198	265	-0.1473			
287.93	0.195	265	-0.1473			
287.97	0.195	264.9	-0.1491			
288.00	0.192	264.9	-0.15			
288.03	0.19	264.9	-0.1509			
288.07	0.192	264.9	-0.15			
288.10	0.19	264.9	-0.1518			
288.13	0.186	264.8	-0.1518			
288.17	0.184	264.8	-0.1536			
288.20	0.184	264.8	-0.1544			
288.23	0.186	264.8	-0.1536			
288.27	0.184	264.8	-0.1553			
288.30	0.18	264.7	-0.1571			
288.33	0.179	264.7	-0.1571			
288.37	0.181	264.7	-0.1571			
288.40	0.177	264.7	-0.1571			
288.43	0.177	264.7	-0.1589			
288.47	0.176	264.7	-0.1598			
288.50	0.172	264.6	-0.1616			
288.53	0.171	264.6	-0.1624			
288.57	0.172	264.6	-0.1624			
288.60	0.17	264.6	-0.1624			
288.63	0.168	264.6	-0.1633			
288.67	0.168	264.5	-0.1651			
288.70	0.166	264.5	-0.1669			
288.73	0.163	264.4	-0.1678			
288.77	0.162	264.4	-0.1687			
288.80	0.16	264.4	-0.1695			
288.83	0.158	264.3	-0.1695			
288.87	0.157	264.3	-0.1713			
288.90	0.157	264.3	-0.1722			
288.93	0.156	264.2	-0.174			
288.97	0.15	264.1	-0.1766			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
289.00	0.15	264.1	-0.1775		
289.03	0.151	264.1	-0.1775		
289.07	0.148	264.1	-0.1775		
289.10	0.145	264.1	-0.1784		
289.13	0.145	264	-0.1802		
289.17	0.143	264	-0.182		
289.20	0.141	263.9	-0.1829		
289.23	0.141	263.9	-0.1837		
289.28	0.138	263.8	-0.1855		
289.32	0.137	263.8	-0.1873		
289.33	0.135	263.7	-0.1891		
289.37	0.134	263.7	-0.1891		
289.40	0.132	263.6	-0.1891		
289.43	0.127	263.6	-0.1908		
289.47	0.127	263.5	-0.1944		
289.50	0.128	263.5	-0.1953		
289.53	0.125	263.4	-0.1971		
289.57	0.123	263.4	-0.1988		
289.60	0.123	263.4	-0.1988		
289.63	0.118	263.2	-0.1988		
289.67	0.116	263.2	-0.2024		
289.70	0.116	263.2	-0.2042		
289.73	0.115	263.1	-0.2059		
289.77	0.112	263.1	-0.2086		
289.80	0.112	263	-0.2086		
289.83	0.11	263	-0.2113		
289.87	0.104	262.8	-0.2113		
289.90	0.104	262.8	-0.2148		
289.93	0.104	262.8	-0.2166		
289.97	0.102	262.7	-0.2184		
290.00	0.1	262.6	-0.2201		
290.03	0.096	262.5	-0.2228		
290.07	0.097	262.5	-0.2237		
290.10	0.095	262.4	-0.2237		
290.13	0.092	262.4	-0.2255		
290.17	0.092	262.3	-0.2281		
290.20	0.089	262.3	-0.2308		
290.23	0.086	262.1	-0.2352		
290.27	0.082	262	-0.237		
290.30	0.083	262	-0.2379		
290.33	0.081	261.9	-0.2379		
290.37	0.078	261.9	-0.2406		
290.40	0.078	261.8	-0.2423		
290.43	0.077	261.7	-0.2441		
290.47	0.073	261.6	-0.2477		
290.50	0.071	261.5	-0.2521		
290.53	0.067	261.3	-0.2548		
290.57	0.065	261.3	-0.2548		
290.60	0.064	261.3	-0.2565		
290.63	0.064	261.2	-0.2592		
290.67	0.062	261.1	-0.2619		
290.70	0.059	261	-0.2645		
290.75	0.057	260.9	-0.2672		
290.77	0.056	260.8	-0.269		
290.80	0.053	260.7	-0.2716		
290.83	0.051	260.6	-0.2743		
290.87	0.05	260.5	-0.2778		
290.90	0.046	260.4	-0.2778		
290.93	0.043	260.4	-0.2814		
290.97	0.043	260.3	-0.284		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
291.00	0.043	260.2	-0.2858			
291.03	0.039	260.1	-0.2894			
291.07	0.037	260	-0.2938			
291.10	0.035	259.9	-0.2965			
291.13	0.032	259.8	-0.2965			
291.17	0.029	259.7	-0.3			
291.20	0.029	259.7	-0.3027			
291.23	0.028	259.6	-0.3053			
291.27	0.025	259.4	-0.3098			
291.30	0.022	259.3	-0.3133			
291.33	0.021	259.2	-0.316			
291.37	0.017	259.1	-0.316			
291.40	0.016	259	-0.3204			
291.43	0.016	259	-0.3231			
291.47	0.014	258.9	-0.3267			
291.50	0.01	258.7	-0.3311			
291.53	0.008	258.6	-0.3338			
291.57	0.006	258.5	-0.3373			
291.60	0.003	258.3	-0.3373			
291.63	0.001	258.2	-0.3417			
291.67	0.001	258.2	-0.3444			
291.70	0	258.1	-0.348			
291.73	-0.004	257.9	-0.3524			
291.77	-0.006	257.8	-0.3559			
291.80	-0.008	257.7	-0.3595			
291.83	-0.011	257.5	-0.3595			
291.87	-0.013	257.5	-0.3639			
291.90	-0.013	257.4	-0.3675			
291.93	-0.015	257.3	-0.3719			
291.97	-0.018	257.1	-0.3755			
292.00	-0.02	257	-0.3799			
292.03	-0.021	256.9	-0.3843			
292.07	-0.026	256.7	-0.3843			
292.10	-0.027	256.7	-0.3888			
292.13	-0.027	256.6	-0.3923			
292.18	-0.031	256.3	-0.3959			
292.22	-0.033	256.2	-0.3994			
292.23	-0.033	256.2	-0.403			
292.27	-0.035	256.1	-0.4065			
292.30	-0.037	255.9	-0.411			
292.33	-0.04	255.8	-0.4154			
292.37	-0.042	255.6	-0.4199			
292.40	-0.045	255.5	-0.4199			
292.43	-0.047	255.3	-0.4243			
292.47	-0.047	255.3	-0.4287			
292.50	-0.049	255.2	-0.4323			
292.53	-0.052	255.1	-0.4376			
292.57	-0.054	254.9	-0.4412			
292.60	-0.056	254.8	-0.4465			
292.63	-0.059	254.6	-0.4465			
292.67	-0.061	254.5	-0.4518			
292.70	-0.061	254.5	-0.4562			
292.73	-0.063	254.3	-0.4607			
292.77	-0.066	254.1	-0.466			
292.80	-0.068	254	-0.4696			
292.83	-0.069	253.8	-0.4749			
292.87	-0.072	253.6	-0.4749			
292.90	-0.074	253.5	-0.4802			
292.93	-0.074	253.5	-0.4847			
292.97	-0.077	253.3	-0.49			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
293.00	-0.079	253.1	-0.4953		
293.03	-0.081	253	-0.4997		
293.07	-0.083	252.8	-0.5042		
293.10	-0.086	252.7	-0.5042		
293.13	-0.087	252.5	-0.5095		
293.17	-0.087	252.5	-0.5139		
293.20	-0.089	252.4	-0.5202		
293.23	-0.092	252.2	-0.5246		
293.27	-0.094	252	-0.5299		
293.30	-0.096	251.9	-0.5352		
293.33	-0.098	251.7	-0.5352		
293.37	-0.1	251.5	-0.5397		
293.40	-0.1	251.5	-0.5459		
293.43	-0.102	251.4	-0.5503		
293.47	-0.104	251.2	-0.5557		
293.50	-0.107	251	-0.561		
293.53	-0.108	250.9	-0.5654		
293.57	-0.111	250.7	-0.5654		
293.60	-0.113	250.6	-0.5716		
293.65	-0.113	250.4	-0.5796		
293.68	-0.115	250.3	-0.5796		
293.70	-0.118	250.1	-0.5841		
293.73	-0.118	250.1	-0.5894		
293.77	-0.119	249.9	-0.5938		
293.80	-0.122	249.8	-0.5992		
293.83	-0.124	249.6	-0.6045		
293.87	-0.125	249.4	-0.6089		
293.90	-0.128	249.2	-0.6089		
293.93	-0.13	249.1	-0.6151		
293.97	-0.13	249.1	-0.6205		
294.00	-0.131	248.9	-0.624		
294.03	-0.133	248.8	-0.6302		
294.07	-0.135	248.6	-0.6338		
294.10	-0.136	248.5	-0.6382		
294.13	-0.138	248.3	-0.6382		
294.17	-0.14	248.1	-0.6435		
294.20	-0.14	248.1	-0.6498		
294.23	-0.142	247.9	-0.6542		
294.27	-0.144	247.8	-0.6595		
294.30	-0.146	247.6	-0.664		
294.33	-0.147	247.5	-0.6684		
294.37	-0.149	247.3	-0.6684		
294.40	-0.151	247.1	-0.6737		
294.43	-0.151	247.1	-0.6782		
294.47	-0.152	247	-0.6835		
294.50	-0.155	246.8	-0.6879		
294.53	-0.156	246.6	-0.6924		
294.57	-0.158	246.5	-0.6977		
294.60	-0.159	246.3	-0.6977		
294.63	-0.161	246.1	-0.7021		
294.67	-0.161	246.1	-0.7066		
294.70	-0.162	246	-0.711		
294.73	-0.164	245.8	-0.7154		
294.77	-0.166	245.7	-0.7199		
294.80	-0.167	245.5	-0.7243		
294.83	-0.168	245.3	-0.7243		
294.87	-0.17	245.1	-0.7288		
294.90	-0.17	245.1	-0.7332		
294.93	-0.171	245	-0.7367		
294.97	-0.173	244.8	-0.7412		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
295.00	-0.175	244.7	-0.7456		
295.03	-0.175	244.5	-0.7501		
295.08	-0.176	244.4	-0.7536		
295.12	-0.177	244.2	-0.7572		
295.13	-0.179	244.1	-0.7616		
295.17	-0.181	243.9	-0.7616		
295.20	-0.182	243.8	-0.766		
295.23	-0.182	243.8	-0.7696		
295.27	-0.183	243.6	-0.7731		
295.30	-0.185	243.5	-0.7767		
295.33	-0.186	243.3	-0.7811		
295.37	-0.186	243.2	-0.7847		
295.40	-0.188	243	-0.7847		
295.43	-0.19	242.9	-0.7882		
295.47	-0.19	242.9	-0.7918		
295.50	-0.19	242.8	-0.7953		
295.53	-0.192	242.6	-0.7989		
295.57	-0.193	242.5	-0.8024		
295.60	-0.194	242.3	-0.806		
295.63	-0.195	242.2	-0.806		
295.67	-0.196	242	-0.8095		
295.70	-0.196	242	-0.8122		
295.73	-0.197	241.9	-0.8157		
295.77	-0.198	241.8	-0.8184		
295.80	-0.199	241.6	-0.822		
295.83	-0.2	241.5	-0.8246		
295.87	-0.201	241.4	-0.8246		
295.90	-0.202	241.2	-0.8273		
295.93	-0.202	241.2	-0.8308		
295.97	-0.203	241.1	-0.8335		
296.00	-0.203	241	-0.8362		
296.03	-0.205	240.8	-0.8388		
296.07	-0.205	240.7	-0.8415		
296.10	-0.206	240.6	-0.8415		
296.13	-0.207	240.5	-0.8441		
296.17	-0.207	240.5	-0.8468		
296.20	-0.208	240.4	-0.8495		
296.23	-0.208	240.3	-0.8512		
296.27	-0.21	240.1	-0.8539		
296.30	-0.21	240	-0.8566		
296.33	-0.211	239.9	-0.8566		
296.37	-0.211	239.8	-0.8583		
296.40	-0.211	239.8	-0.8601		
296.43	-0.212	239.7	-0.8619		
296.47	-0.212	239.6	-0.8646		
296.50	-0.213	239.5	-0.8663		
296.55	-0.214	239.4	-0.8681		
296.58	-0.214	239.3	-0.8699		
296.60	-0.214	239.2	-0.8717		
296.63	-0.215	239.1	-0.8743		
296.67	-0.216	239	-0.8743		
296.70	-0.216	238.9	-0.8761		
296.73	-0.216	238.9	-0.877		
296.77	-0.216	238.8	-0.8788		
296.80	-0.217	238.7	-0.8805		
296.83	-0.217	238.6	-0.8832		
296.87	-0.217	238.5	-0.8841		
296.90	-0.218	238.5	-0.8841		
296.93	-0.218	238.4	-0.8859		
296.97	-0.218	238.4	-0.8868		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
297.00	-0.218	238.3	-0.8885		
297.03	-0.219	238.2	-0.8894		
297.07	-0.219	238.1	-0.8912		
297.10	-0.219	238.1	-0.8921		
297.13	-0.219	238	-0.8921		
297.17	-0.22	237.9	-0.8939		
297.20	-0.22	237.9	-0.8947		
297.23	-0.22	237.9	-0.8956		
297.27	-0.22	237.8	-0.8974		
297.30	-0.22	237.7	-0.8983		
297.33	-0.22	237.7	-0.8983		
297.37	-0.219	237.6	-0.8983		
297.40	-0.22	237.5	-0.8992		
297.43	-0.22	237.5	-0.9001		
297.47	-0.22	237.5	-0.901		
297.50	-0.22	237.4	-0.9018		
297.53	-0.22	237.4	-0.9027		
297.57	-0.219	237.3	-0.9036		
297.60	-0.219	237.3	-0.9036		
297.63	-0.219	237.2	-0.9036		
297.67	-0.219	237.2	-0.9045		
297.70	-0.219	237.2	-0.9045		
297.73	-0.219	237.2	-0.9054		
297.77	-0.219	237.1	-0.9054		
297.80	-0.218	237.1	-0.9063		
297.83	-0.218	237	-0.9063		
297.87	-0.218	237	-0.9063		
297.90	-0.218	237	-0.9072		
297.93	-0.217	236.9	-0.9072		
297.98	-0.217	236.9	-0.9072		
298.02	-0.217	236.9	-0.9072		
298.03	-0.217	236.9	-0.9081		
298.07	-0.216	236.8	-0.9081		
298.10	-0.216	236.8	-0.9081		
298.13	-0.215	236.8	-0.9081		
298.17	-0.215	236.8	-0.9081		
298.20	-0.215	236.8	-0.9081		
298.23	-0.215	236.8	-0.9081		
298.27	-0.214	236.7	-0.9081		
298.30	-0.214	236.7	-0.9081		
298.33	-0.212	236.7	-0.9072		
298.37	-0.212	236.7	-0.9072		
298.40	-0.212	236.7	-0.9072		
298.43	-0.211	236.7	-0.9072		
298.47	-0.211	236.7	-0.9072		
298.50	-0.211	236.7	-0.9072		
298.53	-0.21	236.7	-0.9063		
298.57	-0.209	236.7	-0.9063		
298.60	-0.208	236.7	-0.9063		
298.63	-0.207	236.7	-0.9063		
298.67	-0.207	236.7	-0.9054		
298.70	-0.207	236.7	-0.9054		
298.73	-0.206	236.7	-0.9054		
298.77	-0.205	236.7	-0.9045		
298.80	-0.204	236.7	-0.9045		
298.83	-0.203	236.8	-0.9036		
298.87	-0.202	236.8	-0.9036		
298.90	-0.201	236.8	-0.9036		
298.93	-0.201	236.8	-0.9027		
298.97	-0.201	236.8	-0.9027		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
299.00	-0.2	236.8	-0.9018			
299.03	-0.199	236.8	-0.9018			
299.07	-0.198	236.8	-0.901			
299.10	-0.197	236.9	-0.901			
299.13	-0.195	236.9	-0.9001			
299.17	-0.195	236.9	-0.9001			
299.20	-0.194	236.9	-0.8992			
299.23	-0.193	237	-0.8983			
299.27	-0.192	237	-0.8983			
299.30	-0.191	237.1	-0.8974			
299.33	-0.19	237.1	-0.8974			
299.37	-0.189	237.1	-0.8965			
299.40	-0.189	237.1	-0.8956			
299.45	-0.187	237.2	-0.8947			
299.48	-0.186	237.2	-0.8947			
299.50	-0.186	237.2	-0.8939			
299.53	-0.184	237.3	-0.893			
299.57	-0.183	237.3	-0.8921			
299.60	-0.182	237.4	-0.8912			
299.63	-0.181	237.4	-0.8903			
299.67	-0.179	237.5	-0.8903			
299.70	-0.177	237.5	-0.8894			
299.73	-0.177	237.5	-0.8885			
299.77	-0.176	237.6	-0.8868			
299.80	-0.175	237.6	-0.8868			
299.83	-0.173	237.7	-0.8859			
299.87	-0.172	237.7	-0.885			
299.90	-0.171	237.8	-0.885			
299.93	-0.169	237.8	-0.8832			
299.97	-0.169	237.8	-0.8823			
300.00	-0.168	237.9	-0.8814			
300.03	-0.166	238	-0.8797			
300.07	-0.164	238	-0.8788			
300.10	-0.163	238.1	-0.8779			
300.13	-0.161	238.2	-0.8779			
300.17	-0.16	238.2	-0.877			
300.20	-0.16	238.2	-0.8761			
300.23	-0.159	238.3	-0.8743			
300.27	-0.156	238.4	-0.8726			
300.30	-0.154	238.5	-0.8717			
300.33	-0.153	238.5	-0.8699			
300.37	-0.151	238.6	-0.8699			
300.40	-0.149	238.7	-0.8681			
300.43	-0.149	238.7	-0.8663			
300.47	-0.148	238.8	-0.8654			
300.50	-0.146	238.9	-0.8646			
300.53	-0.145	238.9	-0.8628			
300.57	-0.143	239	-0.861			
300.60	-0.141	239.1	-0.861			
300.63	-0.139	239.2	-0.8601			
300.67	-0.139	239.2	-0.8592			
300.70	-0.139	239.3	-0.8583			
300.73	-0.136	239.4	-0.8557			
300.77	-0.133	239.5	-0.8539			
300.80	-0.131	239.6	-0.853			
300.83	-0.13	239.7	-0.853			
300.87	-0.128	239.8	-0.8512			
300.92	-0.128	239.8	-0.8486			
300.95	-0.125	239.9	-0.8486			
300.97	-0.123	240	-0.8459			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
301.00	-0.123	240	-0.845		
301.03	-0.123	240.1	-0.8433		
301.07	-0.119	240.2	-0.8406		
301.10	-0.117	240.3	-0.8388		
301.13	-0.116	240.4	-0.837		
301.17	-0.113	240.5	-0.837		
301.20	-0.111	240.6	-0.8344		
301.23	-0.111	240.6	-0.8326		
301.27	-0.109	240.7	-0.8308		
301.30	-0.108	240.8	-0.8291		
301.33	-0.105	240.9	-0.8273		
301.37	-0.104	241	-0.8246		
301.40	-0.101	241.2	-0.8246		
301.43	-0.099	241.3	-0.822		
301.47	-0.099	241.3	-0.8202		
301.50	-0.097	241.4	-0.8175		
301.53	-0.095	241.6	-0.8157		
301.57	-0.093	241.7	-0.814		
301.60	-0.091	241.8	-0.8113		
301.63	-0.089	241.9	-0.8113		
301.67	-0.086	242.1	-0.8086		
301.70	-0.086	242.1	-0.806		
301.73	-0.084	242.2	-0.8042		
301.77	-0.082	242.3	-0.8007		
301.80	-0.08	242.4	-0.7989		
301.83	-0.078	242.5	-0.7962		
301.87	-0.075	242.7	-0.7962		
301.90	-0.073	242.8	-0.7927		
301.93	-0.073	242.8	-0.7909		
301.97	-0.072	242.9	-0.7882		
302.00	-0.069	243.1	-0.7856		
302.03	-0.066	243.2	-0.7829		
302.07	-0.065	243.3	-0.7793		
302.10	-0.062	243.5	-0.7793		
302.13	-0.059	243.6	-0.7767		
302.17	-0.059	243.6	-0.774		
302.20	-0.058	243.7	-0.7714		
302.23	-0.056	243.9	-0.7687		
302.27	-0.053	244	-0.766		
302.30	-0.051	244.2	-0.7625		
302.35	-0.049	244.3	-0.7607		
302.38	-0.047	244.4	-0.758		
302.40	-0.046	244.5	-0.7554		
302.43	-0.043	244.7	-0.7554		
302.47	-0.04	244.9	-0.7518		
302.50	-0.04	244.9	-0.7492		
302.53	-0.038	245	-0.7447		
302.57	-0.036	245.1	-0.7421		
302.60	-0.033	245.3	-0.7385		
302.63	-0.032	245.4	-0.735		
302.67	-0.029	245.6	-0.735		
302.70	-0.026	245.8	-0.7314		
302.73	-0.026	245.8	-0.7288		
302.77	-0.024	245.9	-0.7243		
302.80	-0.022	246.1	-0.7208		
302.83	-0.019	246.2	-0.7181		
302.87	-0.017	246.3	-0.7146		
302.90	-0.015	246.5	-0.7146		
302.93	-0.012	246.7	-0.711		
302.97	-0.012	246.7	-0.7074		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
303.00	-0.011	246.8	-0.7039		
303.03	-0.007	247	-0.7003		
303.07	-0.005	247.1	-0.6968		
303.10	-0.003	247.3	-0.6932		
303.13	-0.001	247.4	-0.6932		
303.17	0.002	247.6	-0.6897		
303.20	0.002	247.6	-0.6861		
303.23	0.004	247.7	-0.6826		
303.27	0.007	247.9	-0.6782		
303.30	0.01	248	-0.6746		
303.33	0.011	248.2	-0.6711		
303.37	0.013	248.3	-0.6711		
303.40	0.017	248.5	-0.6675		
303.43	0.017	248.5	-0.6631		
303.47	0.018	248.6	-0.6595		
303.50	0.022	248.8	-0.6542		
303.53	0.023	248.9	-0.6506		
303.57	0.025	249.1	-0.6462		
303.60	0.028	249.3	-0.6462		
303.63	0.031	249.4	-0.6418		
303.67	0.031	249.4	-0.6382		
303.70	0.032	249.6	-0.6338		
303.73	0.035	249.8	-0.6302		
303.77	0.038	249.9	-0.6258		
303.82	0.039	250.1	-0.6222		
303.85	0.04	250.2	-0.6187		
303.87	0.043	250.4	-0.6151		
303.90	0.046	250.5	-0.6107		
303.93	0.048	250.7	-0.6107		
303.97	0.051	250.9	-0.6063		
304.00	0.051	250.9	-0.6018		
304.03	0.052	251	-0.5983		
304.07	0.055	251.2	-0.5929		
304.10	0.058	251.3	-0.5885		
304.13	0.059	251.5	-0.5841		
304.17	0.061	251.6	-0.5841		
304.20	0.064	251.8	-0.5796		
304.23	0.064	251.8	-0.5743		
304.27	0.066	251.9	-0.5699		
304.30	0.069	252.1	-0.5654		
304.33	0.072	252.3	-0.5601		
304.37	0.072	252.4	-0.5566		
304.40	0.075	252.6	-0.5566		
304.43	0.079	252.8	-0.5512		
304.47	0.079	252.8	-0.5468		
304.50	0.079	252.9	-0.5423		
304.53	0.082	253.1	-0.537		
304.57	0.085	253.2	-0.5326		
304.60	0.086	253.4	-0.5273		
304.63	0.089	253.6	-0.5273		
304.67	0.091	253.7	-0.5219		
304.70	0.091	253.7	-0.5157		
304.73	0.093	253.9	-0.5113		
304.77	0.096	254.1	-0.5068		
304.80	0.097	254.2	-0.5024		
304.83	0.099	254.4	-0.498		
304.87	0.102	254.5	-0.498		
304.90	0.106	254.7	-0.4926		
304.93	0.106	254.7	-0.4864		
304.97	0.106	254.8	-0.482		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
305.00	0.108	255	-0.4784		
305.03	0.11	255.1	-0.474		
305.07	0.112	255.3	-0.4687		
305.10	0.117	255.5	-0.4687		
305.13	0.118	255.6	-0.4607		
305.17	0.118	255.6	-0.4562		
305.20	0.117	255.7	-0.4545		
305.25	0.122	256	-0.4483		
305.28	0.122	256	-0.4447		
305.30	0.124	256.2	-0.4403		
305.33	0.126	256.3	-0.4349		
305.37	0.128	256.5	-0.4305		
305.40	0.13	256.6	-0.4261		
305.43	0.132	256.8	-0.4199		
305.47	0.134	256.9	-0.4199		
305.50	0.134	256.9	-0.4163		
305.53	0.136	257	-0.4119		
305.57	0.139	257.2	-0.4057		
305.60	0.142	257.4	-0.4012		
305.63	0.14	257.5	-0.3986		
305.67	0.143	257.6	-0.3932		
305.70	0.146	257.7	-0.3932		
305.73	0.146	257.7	-0.3888		
305.77	0.147	257.9	-0.3843		
305.80	0.149	258	-0.379		
305.83	0.152	258.2	-0.3746		
305.87	0.153	258.3	-0.3701		
305.90	0.155	258.5	-0.3657		
305.93	0.158	258.6	-0.3657		
305.97	0.158	258.6	-0.3604		
306.00	0.158	258.7	-0.3568		
306.03	0.162	258.9	-0.3497		
306.07	0.161	259	-0.3471		
306.10	0.163	259.1	-0.3426		
306.13	0.165	259.3	-0.3373		
306.17	0.168	259.4	-0.3373		
306.20	0.168	259.4	-0.3329		
306.23	0.168	259.5	-0.3293		
306.27	0.17	259.7	-0.3258		
306.30	0.172	259.8	-0.3213		
306.33	0.173	259.9	-0.3169		
306.37	0.175	260.1	-0.3124		
306.40	0.18	260.2	-0.3124		
306.43	0.18	260.2	-0.3062		
306.47	0.179	260.3	-0.3036		
306.50	0.178	260.4	-0.3018		
306.53	0.18	260.5	-0.2974		
306.57	0.182	260.7	-0.2929		
306.60	0.185	260.8	-0.2876		
306.63	0.186	260.9	-0.2876		
306.67	0.186	260.9	-0.2832		
306.72	0.188	261.2	-0.2761		
306.75	0.192	261.3	-0.2761		
306.77	0.192	261.3	-0.2707		
306.80	0.189	261.4	-0.2698		
306.83	0.191	261.5	-0.2672		
306.87	0.194	261.6	-0.2627		
306.90	0.197	261.8	-0.2574		
306.93	0.197	261.9	-0.2539		
306.97	0.196	262	-0.2539		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
307.00	0.196	262	-0.253			
307.03	0.198	262.1	-0.2494			
307.07	0.201	262.3	-0.2432			
307.10	0.204	262.4	-0.2388			
307.13	0.201	262.5	-0.2388			
307.17	0.202	262.6	-0.2361			
307.20	0.205	262.7	-0.2361			
307.23	0.205	262.7	-0.2326			
307.27	0.208	262.8	-0.2281			
307.30	0.207	262.9	-0.2263			
307.33	0.208	263	-0.2237			
307.37	0.212	263.2	-0.2192			
307.40	0.21	263.2	-0.2175			
307.43	0.211	263.3	-0.2175			
307.47	0.211	263.3	-0.2148			
307.50	0.212	263.4	-0.2121			
307.53	0.214	263.5	-0.2095			
307.57	0.215	263.6	-0.2059			
307.60	0.216	263.7	-0.2033			
307.63	0.216	263.8	-0.2015			
307.67	0.217	263.9	-0.2015			
307.70	0.217	263.9	-0.1997			
307.73	0.218	264	-0.1971			
307.77	0.221	264.1	-0.1926			
307.80	0.219	264.2	-0.1917			
307.83	0.22	264.3	-0.19			
307.87	0.221	264.4	-0.1873			
307.90	0.225	264.5	-0.1873			
307.93	0.225	264.5	-0.1837			
307.97	0.222	264.5	-0.1837			
308.00	0.221	264.6	-0.182			
308.03	0.224	264.7	-0.1793			
308.07	0.224	264.8	-0.1784			
308.10	0.226	264.9	-0.1766			
308.15	0.226	265	-0.1749			
308.18	0.227	265	-0.1731			
308.20	0.227	265.1	-0.1713			
308.23	0.227	265.2	-0.1713			
308.27	0.227	265.2	-0.1695			
308.30	0.228	265.3	-0.1678			
308.33	0.228	265.3	-0.1669			
308.37	0.229	265.4	-0.1651			
308.40	0.229	265.5	-0.1633			
308.43	0.23	265.5	-0.1624			
308.47	0.23	265.6	-0.1624			
308.50	0.23	265.6	-0.1598			
308.53	0.233	265.7	-0.1571			
308.57	0.231	265.8	-0.1571			
308.60	0.231	265.8	-0.1562			
308.63	0.233	265.9	-0.1544			
308.67	0.232	266	-0.1536			
308.70	0.231	266	-0.1536			
308.73	0.231	266	-0.1536			
308.77	0.233	266.1	-0.1509			
308.80	0.233	266.1	-0.1509			
308.83	0.232	266.2	-0.15			
308.87	0.235	266.3	-0.1482			
308.90	0.233	266.3	-0.1482			
308.93	0.232	266.3	-0.1482			
308.97	0.232	266.3	-0.1473			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
309.00	0.233	266.4	-0.1473			
309.03	0.235	266.5	-0.1447			
309.07	0.235	266.6	-0.1447			
309.10	0.232	266.6	-0.1447			
309.13	0.234	266.7	-0.1438			
309.17	0.232	266.7	-0.1438			
309.20	0.232	266.7	-0.1438			
309.23	0.234	266.8	-0.142			
309.27	0.234	266.8	-0.142			
309.30	0.232	266.8	-0.142			
309.33	0.232	266.9	-0.142			
309.37	0.232	266.9	-0.1411			
309.40	0.234	267	-0.1411			
309.43	0.234	267	-0.1402			
309.47	0.232	267	-0.1411			
309.50	0.231	267	-0.1411			
309.53	0.232	267.1	-0.1394			
309.57	0.231	267.1	-0.1402			
309.62	0.23	267.2	-0.1402			
309.65	0.232	267.2	-0.1394			
309.67	0.231	267.2	-0.1394			
309.70	0.229	267.3	-0.1394			
309.73	0.231	267.3	-0.1394			
309.77	0.228	267.3	-0.1385			
309.80	0.228	267.3	-0.1394			
309.83	0.23	267.4	-0.1385			
309.87	0.23	267.4	-0.1385			
309.90	0.226	267.4	-0.1402			
309.93	0.227	267.4	-0.1394			
309.97	0.229	267.5	-0.1394			
310.00	0.227	267.5	-0.1385			
310.03	0.227	267.5	-0.1394			
310.07	0.226	267.5	-0.1394			
310.10	0.223	267.5	-0.1402			
310.13	0.226	267.6	-0.1402			
310.17	0.223	267.6	-0.1411			
310.20	0.221	267.6	-0.1411			
310.23	0.221	267.6	-0.1411			
310.27	0.221	267.6	-0.1411			
310.30	0.223	267.7	-0.1402			
310.33	0.22	267.6	-0.142			
310.37	0.219	267.7	-0.142			
310.40	0.219	267.7	-0.142			
310.43	0.218	267.7	-0.142			
310.47	0.217	267.7	-0.142			
310.50	0.217	267.7	-0.1429			
310.53	0.217	267.7	-0.1429			
310.57	0.215	267.7	-0.1438			
310.60	0.214	267.7	-0.1438			
310.63	0.214	267.7	-0.1438			
310.67	0.212	267.7	-0.1438			
310.70	0.211	267.7	-0.1447			
310.73	0.211	267.7	-0.1447			
310.77	0.21	267.7	-0.1456			
310.80	0.212	267.8	-0.1447			
310.83	0.208	267.7	-0.1465			
310.87	0.206	267.7	-0.1473			
310.90	0.207	267.8	-0.1473			
310.93	0.203	267.8	-0.1473			
310.97	0.203	267.7	-0.1473			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
311.00	0.203	267.7	-0.1482		
311.03	0.205	267.8	-0.1482		
311.08	0.2	267.7	-0.15		
311.12	0.201	267.7	-0.1491		
311.13	0.202	267.7	-0.15		
311.17	0.198	267.7	-0.1518		
311.20	0.196	267.7	-0.1527		
311.23	0.195	267.7	-0.1527		
311.27	0.194	267.7	-0.1536		
311.30	0.194	267.7	-0.1536		
311.33	0.193	267.6	-0.1544		
311.37	0.193	267.7	-0.1544		
311.40	0.19	267.6	-0.1562		
311.43	0.189	267.6	-0.1571		
311.47	0.187	267.6	-0.1571		
311.50	0.186	267.6	-0.158		
311.53	0.186	267.6	-0.1589		
311.57	0.185	267.5	-0.1589		
311.60	0.182	267.5	-0.1607		
311.63	0.181	267.5	-0.1607		
311.67	0.18	267.5	-0.1624		
311.70	0.178	267.4	-0.1624		
311.73	0.177	267.4	-0.1633		
311.77	0.177	267.4	-0.1642		
311.80	0.176	267.4	-0.1651		
311.83	0.173	267.3	-0.166		
311.87	0.172	267.3	-0.1669		
311.90	0.171	267.3	-0.1687		
311.93	0.168	267.2	-0.1687		
311.97	0.167	267.2	-0.1695		
312.00	0.167	267.2	-0.1704		
312.03	0.166	267.2	-0.1713		
312.07	0.163	267.1	-0.1731		
312.10	0.162	267.1	-0.174		
312.13	0.161	267.1	-0.1749		
312.17	0.158	267	-0.1749		
312.20	0.156	267	-0.1758		
312.23	0.156	267	-0.1775		
312.27	0.155	267	-0.1784		
312.30	0.153	266.9	-0.1802		
312.33	0.151	266.9	-0.1811		
312.37	0.15	266.8	-0.182		
312.40	0.147	266.8	-0.182		
312.43	0.146	266.8	-0.1837		
312.47	0.146	266.7	-0.1846		
312.52	0.143	266.6	-0.1864		
312.55	0.14	266.6	-0.1873		
312.57	0.14	266.6	-0.1891		
312.60	0.14	266.5	-0.1908		
312.63	0.137	266.5	-0.1926		
312.67	0.135	266.4	-0.1935		
312.70	0.135	266.4	-0.1953		
312.73	0.129	266.3	-0.1953		
312.77	0.129	266.3	-0.1979		
312.80	0.129	266.2	-0.1988		
312.83	0.127	266.2	-0.2006		
312.87	0.125	266.1	-0.2024		
312.90	0.123	266.1	-0.2033		
312.93	0.124	266	-0.205		
312.97	0.117	265.9	-0.205		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
313.00	0.116	265.9	-0.2086		
313.03	0.116	265.9	-0.2095		
313.07	0.115	265.8	-0.2113		
313.10	0.112	265.7	-0.213		
313.13	0.113	265.7	-0.2148		
313.17	0.109	265.6	-0.2184		
313.20	0.102	265.5	-0.2184		
313.23	0.104	265.5	-0.2219		
313.27	0.104	265.4	-0.2219		
313.30	0.102	265.4	-0.2237		
313.33	0.1	265.3	-0.2255		
313.37	0.097	265.2	-0.2281		
313.40	0.095	265.1	-0.2308		
313.43	0.093	265	-0.2308		
313.47	0.091	265	-0.2326		
313.50	0.091	265	-0.2343		
313.53	0.09	264.9	-0.237		
313.57	0.086	264.8	-0.2397		
313.60	0.085	264.7	-0.2414		
313.63	0.082	264.6	-0.245		
313.67	0.079	264.5	-0.245		
313.70	0.078	264.5	-0.2477		
313.73	0.078	264.5	-0.2494		
313.77	0.076	264.4	-0.2521		
313.80	0.072	264.3	-0.2548		
313.83	0.071	264.2	-0.2574		
313.87	0.069	264.1	-0.2592		
313.90	0.065	264	-0.2592		
313.93	0.064	264	-0.2627		
313.98	0.063	263.8	-0.2672		
314.02	0.06	263.7	-0.2672		
314.03	0.058	263.7	-0.2698		
314.07	0.058	263.6	-0.2716		
314.10	0.056	263.5	-0.2752		
314.13	0.053	263.4	-0.2778		
314.17	0.05	263.3	-0.2814		
314.20	0.05	263.2	-0.284		
314.23	0.046	263.1	-0.284		
314.27	0.044	263.1	-0.2867		
314.30	0.044	263	-0.2894		
314.33	0.043	262.9	-0.2938		
314.37	0.038	262.8	-0.2974		
314.40	0.037	262.7	-0.3		
314.43	0.035	262.6	-0.3027		
314.47	0.031	262.4	-0.3027		
314.50	0.03	262.4	-0.3062		
314.53	0.03	262.3	-0.3089		
314.57	0.028	262.2	-0.3124		
314.60	0.025	262	-0.316		
314.63	0.023	261.9	-0.3196		
314.67	0.021	261.8	-0.3231		
314.70	0.017	261.7	-0.3231		
314.73	0.015	261.7	-0.3267		
314.77	0.015	261.5	-0.3302		
314.80	0.014	261.4	-0.3329		
314.83	0.011	261.3	-0.3364		
314.87	0.008	261.2	-0.34		
314.90	0.006	261	-0.3435		
314.93	0.004	260.9	-0.3435		
314.97	0.001	260.9	-0.3471		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
315.00	0.001	260.8	-0.3506		
315.03	0	260.7	-0.3542		
315.07	-0.004	260.5	-0.3595		
315.10	-0.006	260.4	-0.3622		
315.13	-0.008	260.3	-0.3666		
315.17	-0.012	260.1	-0.3666		
315.20	-0.013	260.1	-0.371		
315.23	-0.013	260	-0.3737		
315.27	-0.015	259.9	-0.3781		
315.30	-0.019	259.7	-0.3826		
315.33	-0.019	259.6	-0.3861		
315.37	-0.022	259.4	-0.3914		
315.42	-0.025	259.3	-0.395		
315.45	-0.026	259.2	-0.3977		
315.47	-0.028	259	-0.4021		
315.50	-0.032	258.9	-0.4021		
315.53	-0.033	258.9	-0.4057		
315.57	-0.033	258.8	-0.4092		
315.60	-0.035	258.6	-0.4136		
315.63	-0.038	258.4	-0.4181		
315.67	-0.04	258.3	-0.4225		
315.70	-0.043	258.2	-0.4278		
315.73	-0.045	258	-0.4278		
315.77	-0.047	258	-0.4323		
315.80	-0.047	257.8	-0.4358		
315.83	-0.049	257.7	-0.4403		
315.87	-0.052	257.5	-0.4456		
315.90	-0.054	257.4	-0.45		
315.93	-0.055	257.3	-0.4545		
315.97	-0.06	257.1	-0.4545		
316.00	-0.06	257.1	-0.4589		
316.03	-0.06	257	-0.4633		
316.07	-0.062	256.8	-0.4687		
316.10	-0.067	256.6	-0.4749		
316.13	-0.067	256.5	-0.4784		
316.17	-0.07	256.3	-0.4838		
316.20	-0.073	256.1	-0.4838		
316.23	-0.074	256.1	-0.4891		
316.27	-0.074	256	-0.4935		
316.30	-0.076	255.8	-0.4989		
316.33	-0.079	255.7	-0.5033		
316.37	-0.081	255.5	-0.5086		
316.40	-0.082	255.4	-0.5131		
316.43	-0.085	255.2	-0.5131		
316.47	-0.087	255.2	-0.5184		
316.50	-0.087	255	-0.5237		
316.53	-0.089	254.9	-0.529		
316.57	-0.092	254.7	-0.5344		
316.60	-0.094	254.5	-0.5397		
316.63	-0.095	254.4	-0.545		
316.67	-0.099	254.2	-0.545		
316.70	-0.1	254.2	-0.5503		
316.73	-0.1	254	-0.5548		
316.77	-0.102	253.9	-0.5601		
316.80	-0.105	253.7	-0.5654		
316.83	-0.106	253.5	-0.5708		
316.88	-0.108	253.4	-0.5752		
316.92	-0.109	253.2	-0.5787		
316.93	-0.112	253	-0.5841		
316.97	-0.113	252.8	-0.5885		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
317.00	-0.117	252.7	-0.5885		
317.03	-0.118	252.7	-0.5947		
317.07	-0.118	252.5	-0.5992		
317.10	-0.119	252.3	-0.6045		
317.13	-0.123	252.1	-0.6098		
317.17	-0.123	252	-0.6142		
317.20	-0.125	251.8	-0.6205		
317.23	-0.128	251.6	-0.6205		
317.27	-0.129	251.6	-0.6267		
317.30	-0.129	251.5	-0.6311		
317.33	-0.131	251.3	-0.6347		
317.37	-0.134	251.1	-0.6409		
317.40	-0.134	251	-0.6444		
317.43	-0.136	250.8	-0.6498		
317.47	-0.14	250.6	-0.6498		
317.50	-0.14	250.6	-0.656		
317.53	-0.14	250.5	-0.6604		
317.57	-0.142	250.3	-0.6648		
317.60	-0.145	250.1	-0.6702		
317.63	-0.145	250	-0.6746		
317.67	-0.147	249.8	-0.6799		
317.70	-0.151	249.6	-0.6799		
317.73	-0.15	249.6	-0.6861		
317.77	-0.15	249.5	-0.6897		
317.80	-0.153	249.3	-0.695		
317.83	-0.155	249.1	-0.7003		
317.87	-0.156	248.9	-0.7048		
317.90	-0.157	248.8	-0.7083		
317.93	-0.159	248.6	-0.7083		
317.97	-0.16	248.6	-0.7137		
318.00	-0.16	248.5	-0.7181		
318.03	-0.162	248.3	-0.7234		
318.07	-0.164	248.1	-0.7279		
318.10	-0.165	248	-0.7323		
318.13	-0.167	247.8	-0.7367		
318.17	-0.169	247.6	-0.7367		
318.20	-0.17	247.6	-0.7412		
318.23	-0.17	247.5	-0.7456		
318.27	-0.171	247.3	-0.7509		
318.30	-0.173	247.2	-0.7554		
318.35	-0.174	247	-0.7589		
318.37	-0.175	246.9	-0.7625		
318.40	-0.176	246.7	-0.766		
318.43	-0.179	246.6	-0.7705		
318.47	-0.178	246.4	-0.7731		
318.50	-0.181	246.2	-0.7731		
318.53	-0.182	246.2	-0.7776		
318.57	-0.182	246.1	-0.7811		
318.60	-0.183	245.9	-0.7856		
318.63	-0.185	245.8	-0.79		
318.67	-0.185	245.7	-0.7936		
318.70	-0.187	245.5	-0.7971		
318.73	-0.188	245.3	-0.7971		
318.77	-0.189	245.3	-0.8007		
318.80	-0.189	245.2	-0.8042		
318.83	-0.19	245	-0.8078		
318.87	-0.193	244.9	-0.8113		
318.90	-0.192	244.7	-0.8149		
318.93	-0.193	244.6	-0.8184		
318.97	-0.196	244.4	-0.8184		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
319.00	-0.196	244.4	-0.822		
319.03	-0.196	244.3	-0.8246		
319.07	-0.197	244.1	-0.8282		
319.10	-0.198	244	-0.8317		
319.13	-0.199	243.9	-0.8344		
319.17	-0.2	243.7	-0.837		
319.20	-0.202	243.6	-0.837		
319.23	-0.201	243.6	-0.8406		
319.27	-0.201	243.5	-0.8433		
319.30	-0.202	243.3	-0.8459		
319.33	-0.204	243.2	-0.8486		
319.37	-0.205	243.1	-0.8512		
319.40	-0.205	243	-0.8539		
319.43	-0.207	242.8	-0.8539		
319.47	-0.207	242.8	-0.8575		
319.50	-0.207	242.7	-0.8592		
319.53	-0.207	242.6	-0.861		
319.57	-0.209	242.5	-0.8637		
319.60	-0.209	242.4	-0.8663		
319.63	-0.21	242.2	-0.8681		
319.67	-0.211	242.1	-0.8681		
319.70	-0.212	242.1	-0.8708		
319.73	-0.212	242	-0.8734		
319.78	-0.212	241.8	-0.8743		
319.82	-0.213	241.8	-0.877		
319.83	-0.213	241.7	-0.8788		
319.87	-0.213	241.6	-0.8805		
319.90	-0.214	241.5	-0.8823		
319.93	-0.215	241.4	-0.885		
319.97	-0.215	241.3	-0.8868		
320.00	-0.215	241.2	-0.8868		
320.03	-0.216	241.2	-0.8885		
320.07	-0.216	241.1	-0.8894		
320.10	-0.216	241	-0.8912		
320.13	-0.217	240.9	-0.893		
320.17	-0.217	240.8	-0.8947		
320.20	-0.218	240.7	-0.8965		
320.23	-0.218	240.6	-0.8965		
320.27	-0.218	240.6	-0.8974		
320.30	-0.218	240.5	-0.8992		
320.33	-0.218	240.4	-0.9001		
320.37	-0.218	240.4	-0.9018		
320.40	-0.219	240.3	-0.9036		
320.43	-0.218	240.2	-0.9045		
320.47	-0.219	240.2	-0.9045		
320.50	-0.219	240.2	-0.9054		
320.53	-0.219	240.1	-0.9063		
320.57	-0.219	240	-0.9081		
320.60	-0.219	240	-0.9089		
320.63	-0.219	239.9	-0.9098		
320.67	-0.22	239.8	-0.9107		
320.70	-0.22	239.8	-0.9107		
320.73	-0.22	239.8	-0.9116		
320.77	-0.22	239.7	-0.9125		
320.80	-0.22	239.6	-0.9134		
320.83	-0.22	239.6	-0.9143		
320.87	-0.22	239.5	-0.9143		
320.90	-0.219	239.5	-0.9152		
320.93	-0.219	239.4	-0.9152		
320.97	-0.219	239.4	-0.916		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
321.00	-0.219	239.4	-0.916		
321.03	-0.219	239.3	-0.9169		
321.07	-0.219	239.3	-0.9169		
321.10	-0.218	239.3	-0.9178		
321.13	-0.218	239.2	-0.9178		
321.17	-0.218	239.2	-0.9178		
321.20	-0.218	239.2	-0.9187		
321.25	-0.218	239.1	-0.9187		
321.28	-0.217	239.1	-0.9187		
321.30	-0.217	239.1	-0.9196		
321.33	-0.217	239.1	-0.9196		
321.37	-0.217	239	-0.9196		
321.40	-0.216	239	-0.9196		
321.43	-0.216	239	-0.9196		
321.47	-0.215	239	-0.9196		
321.50	-0.215	239	-0.9196		
321.53	-0.214	239	-0.9196		
321.57	-0.214	238.9	-0.9196		
321.60	-0.214	238.9	-0.9196		
321.63	-0.213	238.9	-0.9196		
321.67	-0.213	238.9	-0.9196		
321.70	-0.212	238.9	-0.9196		
321.73	-0.211	238.9	-0.9196		
321.77	-0.211	238.9	-0.9196		
321.80	-0.211	238.9	-0.9187		
321.83	-0.21	238.9	-0.9187		
321.87	-0.209	238.9	-0.9187		
321.90	-0.209	238.9	-0.9187		
321.93	-0.208	238.9	-0.9178		
321.97	-0.207	238.9	-0.9178		
322.00	-0.207	238.9	-0.9178		
322.03	-0.207	238.9	-0.9178		
322.07	-0.206	238.9	-0.9169		
322.10	-0.204	238.9	-0.916		
322.13	-0.203	238.9	-0.9169		
322.17	-0.204	238.9	-0.916		
322.20	-0.203	238.9	-0.916		
322.23	-0.201	238.9	-0.916		
322.27	-0.201	239	-0.9152		
322.30	-0.201	239	-0.9143		
322.33	-0.2	239	-0.9143		
322.37	-0.198	239	-0.9134		
322.40	-0.198	239	-0.9125		
322.43	-0.196	239.1	-0.9125		
322.47	-0.195	239.1	-0.9125		
322.50	-0.195	239.1	-0.9116		
322.53	-0.195	239.1	-0.9116		
322.57	-0.193	239.1	-0.9107		
322.60	-0.192	239.2	-0.9098		
322.63	-0.191	239.2	-0.9098		
322.68	-0.19	239.2	-0.9089		
322.72	-0.189	239.3	-0.9081		
322.73	-0.188	239.3	-0.9072		
322.77	-0.187	239.3	-0.9072		
322.80	-0.186	239.3	-0.9063		
322.83	-0.186	239.4	-0.9063		
322.87	-0.184	239.4	-0.9054		
322.90	-0.182	239.5	-0.9036		
322.93	-0.182	239.5	-0.9036		
322.97	-0.181	239.5	-0.9027		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
323.00	-0.179	239.6	-0.9027		
323.03	-0.177	239.6	-0.9018		
323.07	-0.177	239.7	-0.901		
323.10	-0.177	239.7	-0.9001		
323.13	-0.175	239.8	-0.8983		
323.17	-0.174	239.8	-0.8983		
323.20	-0.172	239.9	-0.8965		
323.23	-0.17	239.9	-0.8965		
323.27	-0.169	239.9	-0.8956		
323.30	-0.169	240	-0.8947		
323.33	-0.168	240.1	-0.893		
323.37	-0.166	240.1	-0.8921		
323.40	-0.165	240.2	-0.8912		
323.43	-0.163	240.3	-0.8894		
323.47	-0.161	240.3	-0.8894		
323.50	-0.159	240.3	-0.8885		
323.53	-0.159	240.4	-0.8876		
323.57	-0.159	240.4	-0.8868		
323.60	-0.156	240.5	-0.885		
323.63	-0.155	240.6	-0.8841		
323.67	-0.154	240.7	-0.8823		
323.70	-0.151	240.8	-0.8823		
323.73	-0.15	240.8	-0.8805		
323.77	-0.15	240.8	-0.8797		
323.80	-0.149	240.9	-0.8779		
323.83	-0.146	241	-0.8761		
323.87	-0.144	241.1	-0.8752		
323.90	-0.144	241.2	-0.8743		
323.93	-0.141	241.3	-0.8743		
323.97	-0.139	241.3	-0.8717		
324.00	-0.139	241.4	-0.8708		
324.03	-0.139	241.4	-0.869		
324.07	-0.134	241.6	-0.8672		
324.10	-0.134	241.6	-0.8663		
324.15	-0.133	241.7	-0.8646		
324.18	-0.131	241.8	-0.8628		
324.20	-0.129	241.9	-0.8619		
324.23	-0.127	242	-0.8601		
324.27	-0.125	242.1	-0.8601		
324.30	-0.123	242.1	-0.8583		
324.33	-0.123	242.2	-0.8566		
324.37	-0.122	242.3	-0.8548		
324.40	-0.119	242.4	-0.8521		
324.43	-0.117	242.5	-0.8512		
324.47	-0.116	242.7	-0.8486		
324.50	-0.113	242.8	-0.8486		
324.53	-0.111	242.8	-0.8459		
324.57	-0.111	242.9	-0.845		
324.60	-0.11	243	-0.8424		
324.63	-0.107	243.1	-0.8406		
324.67	-0.105	243.2	-0.8388		
324.70	-0.104	243.3	-0.837		
324.73	-0.101	243.4	-0.837		
324.77	-0.099	243.4	-0.8344		
324.80	-0.099	243.5	-0.8317		
324.83	-0.098	243.7	-0.8299		
324.87	-0.094	243.8	-0.8273		
324.90	-0.092	243.9	-0.8255		
324.93	-0.092	244	-0.8228		
324.97	-0.088	244.2	-0.8228		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
325.00	-0.087	244.2	-0.8202			
325.03	-0.087	244.3	-0.8184			
325.07	-0.084	244.4	-0.8149			
325.10	-0.081	244.6	-0.8122			
325.13	-0.081	244.7	-0.8104			
325.17	-0.078	244.8	-0.8078			
325.20	-0.074	245	-0.8078			
325.23	-0.073	245	-0.8051			
325.27	-0.073	245.1	-0.8024			
325.30	-0.072	245.2	-0.7998			
325.33	-0.069	245.4	-0.7971			
325.37	-0.066	245.5	-0.7944			
325.40	-0.066	245.6	-0.7918			
325.43	-0.062	245.8	-0.7918			
325.47	-0.06	245.8	-0.7891			
325.50	-0.06	245.9	-0.7864			
325.53	-0.058	246.1	-0.7829			
325.58	-0.054	246.2	-0.7802			
325.62	-0.054	246.3	-0.7785			
325.63	-0.052	246.5	-0.7758			
325.67	-0.048	246.6	-0.7722			
325.70	-0.048	246.7	-0.7696			
325.73	-0.046	246.9	-0.766			
325.77	-0.042	247	-0.766			
325.80	-0.041	247	-0.7625			
325.83	-0.041	247.2	-0.7607			
325.87	-0.038	247.3	-0.7563			
325.90	-0.035	247.5	-0.7536			
325.93	-0.033	247.6	-0.7501			
325.97	-0.032	247.7	-0.7474			
326.00	-0.028	247.9	-0.7474			
326.03	-0.027	247.9	-0.743			
326.07	-0.027	248.1	-0.7403			
326.10	-0.025	248.2	-0.7359			
326.13	-0.02	248.4	-0.7323			
326.17	-0.02	248.5	-0.7296			
326.20	-0.017	248.7	-0.7252			
326.23	-0.014	248.8	-0.7252			
326.27	-0.012	248.8	-0.7217			
326.30	-0.012	248.9	-0.719			
326.33	-0.011	249.1	-0.7154			
326.37	-0.007	249.3	-0.711			
326.40	-0.006	249.4	-0.7083			
326.43	-0.003	249.6	-0.7039			
326.47	0	249.8	-0.7039			
326.50	0.001	249.8	-0.6995			
326.53	0.001	249.9	-0.6968			
326.57	0.004	250.1	-0.6924			
326.60	0.007	250.2	-0.6879			
326.63	0.01	250.4	-0.6853			
326.67	0.01	250.5	-0.6817			
326.70	0.014	250.7	-0.6817			
326.73	0.016	250.7	-0.6773			
326.77	0.016	250.9	-0.6737			
326.80	0.018	251	-0.6693			
326.83	0.022	251.2	-0.6648			
326.87	0.023	251.3	-0.6613			
326.90	0.026	251.5	-0.6569			
326.93	0.029	251.7	-0.6569			
326.97	0.03	251.7	-0.6515			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
327.00	0.03	251.8	-0.6489		
327.05	0.034	252.1	-0.6435		
327.08	0.036	252.1	-0.64		
327.10	0.036	252.3	-0.6364		
327.13	0.038	252.4	-0.6329		
327.17	0.042	252.6	-0.6284		
327.20	0.043	252.7	-0.6249		
327.23	0.045	252.9	-0.6196		
327.27	0.049	253.1	-0.6196		
327.30	0.051	253.1	-0.6151		
327.33	0.051	253.3	-0.6107		
327.37	0.052	253.4	-0.6071		
327.40	0.056	253.6	-0.6018		
327.43	0.057	253.7	-0.5983		
327.47	0.059	253.9	-0.5929		
327.50	0.064	254.1	-0.5929		
327.53	0.063	254.1	-0.5876		
327.57	0.063	254.2	-0.5841		
327.60	0.066	254.4	-0.5796		
327.63	0.069	254.6	-0.5734		
327.67	0.071	254.7	-0.5699		
327.70	0.072	254.9	-0.5645		
327.73	0.077	255.1	-0.5645		
327.77	0.078	255.1	-0.5592		
327.80	0.078	255.2	-0.5557		
327.83	0.08	255.4	-0.5503		
327.87	0.083	255.6	-0.545		
327.90	0.086	255.7	-0.5406		
327.93	0.085	255.8	-0.537		
327.97	0.09	256.1	-0.537		
328.00	0.091	256.1	-0.5308		
328.03	0.091	256.2	-0.5264		
328.07	0.093	256.3	-0.5219		
328.10	0.097	256.5	-0.5148		
328.13	0.097	256.7	-0.5113		
328.17	0.1	256.8	-0.5042		
328.20	0.101	257	-0.5042		
328.23	0.105	257	-0.5006		
328.27	0.105	257.1	-0.4953		
328.30	0.105	257.3	-0.4909		
328.33	0.11	257.5	-0.4847		
328.37	0.112	257.6	-0.4793		
328.40	0.112	257.7	-0.4758		
328.43	0.113	257.9	-0.4758		
328.47	0.117	257.9	-0.4713		
328.52	0.117	258.2	-0.4625		
328.55	0.121	258.4	-0.4625		
328.57	0.122	258.4	-0.4571		
328.60	0.122	258.5	-0.4527		
328.63	0.124	258.6	-0.4474		
328.67	0.127	258.8	-0.442		
328.70	0.128	258.9	-0.4376		
328.73	0.13	259.1	-0.4332		
328.77	0.133	259.3	-0.4332		
328.80	0.134	259.3	-0.4278		
328.83	0.134	259.4	-0.4234		
328.87	0.136	259.5	-0.419		
328.90	0.137	259.7	-0.4128		
328.93	0.138	259.9	-0.4101		
328.97	0.141	260	-0.4048		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
329.00	0.147	260.2	-0.4048		
329.03	0.147	260.2	-0.3968		
329.07	0.147	260.3	-0.3923		
329.10	0.147	260.4	-0.3888		
329.13	0.15	260.6	-0.3835		
329.17	0.151	260.7	-0.3799		
329.20	0.155	260.9	-0.3728		
329.23	0.156	261	-0.3728		
329.27	0.156	261	-0.3693		
329.30	0.156	261.1	-0.3657		
329.33	0.157	261.3	-0.3613		
329.37	0.162	261.4	-0.3559		
329.40	0.162	261.5	-0.3524		
329.43	0.163	261.7	-0.348		
329.47	0.165	261.8	-0.348		
329.50	0.168	261.8	-0.3435		
329.53	0.168	262	-0.3391		
329.57	0.168	262.1	-0.3355		
329.60	0.17	262.3	-0.3311		
329.63	0.172	262.4	-0.3267		
329.67	0.173	262.5	-0.3231		
329.70	0.175	262.7	-0.3231		
329.73	0.177	262.7	-0.3178		
329.77	0.177	262.8	-0.3142		
329.80	0.178	262.9	-0.3098		
329.83	0.18	263.1	-0.3053		
329.87	0.182	263.2	-0.3018		
329.90	0.182	263.3	-0.2974		
329.95	0.187	263.5	-0.2911		
329.98	0.186	263.6	-0.2885		
330.00	0.185	263.6	-0.2867		
330.03	0.187	263.8	-0.2867		
330.07	0.189	263.8	-0.2832		
330.10	0.189	263.9	-0.2787		
330.13	0.19	264	-0.2761		
330.17	0.192	264.1	-0.2716		
330.20	0.194	264.3	-0.2681		
330.23	0.196	264.4	-0.2636		
330.27	0.196	264.5	-0.2636		
330.30	0.197	264.5	-0.2601		
330.33	0.197	264.6	-0.2574		
330.37	0.199	264.7	-0.2539		
330.40	0.201	264.8	-0.2494		
330.43	0.202	265	-0.2468		
330.47	0.202	265.1	-0.2432		
330.50	0.204	265.2	-0.2432		
330.53	0.205	265.2	-0.2406		
330.57	0.205	265.3	-0.2379		
330.60	0.206	265.4	-0.2343		
330.63	0.208	265.5	-0.2308		
330.67	0.209	265.6	-0.2263		
330.70	0.211	265.7	-0.2237		
330.73	0.21	265.8	-0.2237		
330.77	0.211	265.8	-0.2219		
330.80	0.211	265.9	-0.2201		
330.83	0.212	266	-0.2166		
330.87	0.214	266.1	-0.213		
330.90	0.217	266.2	-0.2095		
330.93	0.215	266.3	-0.2077		
330.97	0.216	266.4	-0.2077		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
331.00	0.217	266.4	-0.2059			
331.03	0.217	266.5	-0.2033			
331.07	0.216	266.6	-0.2024			
331.10	0.219	266.7	-0.1997			
331.13	0.22	266.8	-0.1971			
331.17	0.221	266.9	-0.1944			
331.20	0.221	267	-0.1944			
331.23	0.222	267	-0.1926			
331.27	0.222	267	-0.19			
331.30	0.223	267.1	-0.1882			
331.33	0.224	267.2	-0.1864			
331.37	0.224	267.3	-0.1846			
331.42	0.225	267.4	-0.182			
331.45	0.225	267.5	-0.1811			
331.47	0.228	267.6	-0.1784			
331.50	0.226	267.6	-0.1775			
331.53	0.225	267.7	-0.1775			
331.57	0.227	267.7	-0.1775			
331.60	0.227	267.8	-0.1749			
331.63	0.228	267.9	-0.1731			
331.67	0.229	267.9	-0.1713			
331.70	0.229	268	-0.1695			
331.73	0.229	268.1	-0.1678			
331.77	0.23	268.2	-0.1678			
331.80	0.231	268.2	-0.1669			
331.83	0.231	268.2	-0.1651			
331.87	0.231	268.3	-0.1642			
331.90	0.231	268.4	-0.1624			
331.93	0.231	268.4	-0.1616			
331.97	0.232	268.5	-0.1607			
332.00	0.232	268.6	-0.1607			
332.03	0.234	268.6	-0.1589			
332.07	0.234	268.7	-0.1571			
332.10	0.232	268.7	-0.1571			
332.13	0.231	268.7	-0.1562			
332.17	0.233	268.8	-0.1553			
332.20	0.233	268.9	-0.1544			
332.23	0.233	268.9	-0.1544			
332.27	0.233	268.9	-0.1536			
332.30	0.233	269	-0.1527			
332.33	0.233	269	-0.1518			
332.37	0.233	269.1	-0.1509			
332.40	0.236	269.2	-0.1491			
332.43	0.233	269.2	-0.15			
332.47	0.231	269.2	-0.15			
332.50	0.232	269.2	-0.15			
332.53	0.232	269.3	-0.1491			
332.57	0.233	269.3	-0.1482			
332.60	0.233	269.4	-0.1473			
332.63	0.233	269.4	-0.1473			
332.67	0.235	269.5	-0.1456			
332.70	0.232	269.5	-0.1456			
332.73	0.231	269.5	-0.1465			
332.77	0.231	269.6	-0.1465			
332.80	0.232	269.6	-0.1456			
332.85	0.232	269.6	-0.1456			
332.88	0.232	269.7	-0.1456			
332.90	0.234	269.8	-0.1447			
332.93	0.231	269.8	-0.1456			
332.97	0.23	269.8	-0.1447			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
333.00	0.23	269.8	-0.1447		
333.03	0.23	269.9	-0.1447		
333.07	0.232	269.9	-0.1447		
333.10	0.232	269.9	-0.1438		
333.13	0.229	269.9	-0.1447		
333.17	0.227	269.9	-0.1447		
333.20	0.227	270	-0.1447		
333.23	0.228	270	-0.1447		
333.27	0.227	270.1	-0.1447		
333.30	0.229	270.1	-0.1438		
333.33	0.229	270.1	-0.1438		
333.37	0.226	270.1	-0.1456		
333.40	0.224	270.1	-0.1456		
333.43	0.225	270.1	-0.1447		
333.47	0.223	270.1	-0.1456		
333.50	0.223	270.2	-0.1456		
333.53	0.223	270.2	-0.1456		
333.57	0.223	270.2	-0.1447		
333.60	0.224	270.2	-0.1447		
333.63	0.221	270.2	-0.1465		
333.67	0.219	270.2	-0.1465		
333.70	0.219	270.2	-0.1465		
333.73	0.221	270.3	-0.1465		
333.77	0.217	270.3	-0.1465		
333.80	0.217	270.3	-0.1473		
333.83	0.217	270.3	-0.1473		
333.87	0.218	270.3	-0.1473		
333.90	0.216	270.3	-0.1482		
333.93	0.215	270.3	-0.15		
333.97	0.211	270.3	-0.15		
334.00	0.211	270.3	-0.15		
334.03	0.211	270.3	-0.15		
334.07	0.212	270.3	-0.15		
334.10	0.211	270.3	-0.15		
334.13	0.21	270.3	-0.15		
334.17	0.209	270.3	-0.1518		
334.20	0.206	270.3	-0.1518		
334.23	0.205	270.3	-0.1527		
334.27	0.205	270.3	-0.1527		
334.32	0.206	270.3	-0.1527		
334.35	0.202	270.3	-0.1536		
334.37	0.202	270.3	-0.1544		
334.40	0.201	270.3	-0.1544		
334.43	0.203	270.3	-0.1544		
334.47	0.198	270.3	-0.1562		
334.50	0.2	270.3	-0.1571		
334.53	0.196	270.3	-0.1571		
334.57	0.197	270.3	-0.158		
334.60	0.197	270.3	-0.1571		
334.63	0.193	270.2	-0.1598		
334.67	0.191	270.2	-0.1598		
334.70	0.193	270.2	-0.1598		
334.73	0.191	270.2	-0.1616		
334.77	0.188	270.2	-0.1616		
334.80	0.185	270.2	-0.1624		
334.83	0.185	270.1	-0.1642		
334.87	0.185	270.1	-0.1642		
334.90	0.187	270.1	-0.1633		
334.93	0.181	270.1	-0.166		
334.97	0.181	270.1	-0.166		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
335.00	0.181	270.1	-0.166			
335.03	0.177	270.1	-0.1669			
335.07	0.177	270	-0.1687			
335.10	0.177	270	-0.1695			
335.13	0.175	270	-0.1704			
335.17	0.172	269.9	-0.1713			
335.20	0.173	269.9	-0.1722			
335.23	0.172	269.9	-0.1722			
335.27	0.167	269.9	-0.1731			
335.30	0.167	269.8	-0.1749			
335.33	0.167	269.8	-0.1758			
335.37	0.167	269.8	-0.1766			
335.40	0.162	269.7	-0.1784			
335.43	0.163	269.7	-0.1784			
335.47	0.16	269.6	-0.1784			
335.50	0.158	269.6	-0.1793			
335.53	0.158	269.6	-0.1811			
335.57	0.157	269.5	-0.1829			
335.60	0.157	269.5	-0.1829			
335.63	0.151	269.4	-0.1855			
335.67	0.15	269.4	-0.1864			
335.70	0.15	269.4	-0.1864			
335.73	0.148	269.4	-0.1873			
335.78	0.147	269.3	-0.19			
335.80	0.147	269.3	-0.19			
335.83	0.143	269.3	-0.1908			
335.87	0.143	269.2	-0.1926			
335.90	0.141	269.1	-0.1944			
335.93	0.138	269.1	-0.1962			
335.97	0.136	269	-0.1979			
336.00	0.136	269	-0.1988			
336.03	0.133	268.9	-0.1988			
336.07	0.128	268.9	-0.2024			
336.10	0.128	268.8	-0.2042			
336.13	0.129	268.8	-0.2042			
336.17	0.128	268.7	-0.205			
336.20	0.126	268.7	-0.2077			
336.23	0.122	268.6	-0.2104			
336.27	0.119	268.5	-0.2104			
336.30	0.12	268.5	-0.2121			
336.33	0.12	268.5	-0.213			
336.37	0.117	268.4	-0.2148			
336.40	0.112	268.3	-0.2192			
336.43	0.111	268.2	-0.2201			
336.47	0.112	268.2	-0.2201			
336.50	0.109	268.1	-0.2201			
336.53	0.106	268.1	-0.2228			
336.57	0.106	268	-0.2255			
336.60	0.104	268	-0.2281			
336.63	0.1	267.8	-0.2308			
336.67	0.098	267.8	-0.2326			
336.70	0.098	267.7	-0.2343			
336.73	0.095	267.6	-0.2343			
336.77	0.093	267.6	-0.2361			
336.80	0.093	267.5	-0.2388			
336.83	0.09	267.5	-0.2406			
336.87	0.088	267.4	-0.2432			
336.90	0.087	267.3	-0.2441			
336.93	0.084	267.2	-0.2485			
336.97	0.081	267.1	-0.2485			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
337.00	0.08	267.1	-0.2512		
337.03	0.08	267	-0.253		
337.07	0.078	266.9	-0.2548		
337.10	0.074	266.8	-0.2583		
337.13	0.072	266.7	-0.2601		
337.17	0.071	266.7	-0.2627		
337.22	0.069	266.6	-0.2654		
337.25	0.067	266.5	-0.2672		
337.27	0.065	266.4	-0.2707		
337.30	0.061	266.2	-0.2707		
337.33	0.06	266.2	-0.2734		
337.37	0.06	266.1	-0.2752		
337.40	0.058	266.1	-0.2787		
337.43	0.055	266	-0.2814		
337.47	0.053	265.9	-0.284		
337.50	0.051	265.8	-0.2876		
337.53	0.048	265.6	-0.2876		
337.57	0.046	265.6	-0.2903		
337.60	0.046	265.5	-0.2938		
337.63	0.044	265.4	-0.2974		
337.67	0.041	265.3	-0.3		
337.70	0.038	265.2	-0.3036		
337.73	0.037	265.1	-0.3062		
337.77	0.034	265	-0.3062		
337.80	0.032	265	-0.3098		
337.83	0.032	264.9	-0.3124		
337.87	0.03	264.8	-0.316		
337.90	0.026	264.6	-0.3196		
337.93	0.024	264.5	-0.3222		
337.97	0.023	264.4	-0.3258		
338.00	0.02	264.3	-0.3258		
338.03	0.017	264.3	-0.3293		
338.07	0.017	264.1	-0.3329		
338.10	0.016	264	-0.3364		
338.13	0.013	263.9	-0.34		
338.17	0.011	263.8	-0.3435		
338.20	0.008	263.6	-0.3471		
338.23	0.005	263.5	-0.3471		
338.27	0.003	263.5	-0.3515		
338.30	0.003	263.4	-0.3551		
338.33	0.001	263.3	-0.3586		
338.37	-0.001	263.1	-0.3622		
338.40	-0.005	263	-0.3666		
338.43	-0.005	262.9	-0.3693		
338.47	-0.008	262.7	-0.3693		
338.50	-0.011	262.7	-0.3737		
338.53	-0.011	262.6	-0.3772		
338.57	-0.013	262.4	-0.3826		
338.60	-0.016	262.3	-0.3861		
338.63	-0.019	262.1	-0.3906		
338.68	-0.019	262	-0.3932		
338.72	-0.021	261.9	-0.3968		
338.73	-0.024	261.7	-0.4012		
338.77	-0.026	261.6	-0.4057		
338.80	-0.029	261.4	-0.4057		
338.83	-0.032	261.2	-0.4092		
338.87	-0.032	261.2	-0.4136		
338.90	-0.033	261.1	-0.4172		
338.93	-0.036	261	-0.4216		
338.97	-0.038	260.8	-0.4261		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
339.00	-0.04	260.7	-0.4314		
339.03	-0.044	260.5	-0.4314		
339.07	-0.045	260.4	-0.4358		
339.10	-0.045	260.4	-0.4403		
339.13	-0.048	260.2	-0.4456		
339.17	-0.05	260	-0.45		
339.20	-0.053	259.9	-0.4545		
339.23	-0.053	259.8	-0.458		
339.27	-0.056	259.6	-0.458		
339.30	-0.059	259.4	-0.4633		
339.33	-0.059	259.4	-0.4678		
339.37	-0.06	259.3	-0.4722		
339.40	-0.064	259.1	-0.4776		
339.43	-0.066	258.9	-0.4829		
339.47	-0.067	258.8	-0.4873		
339.50	-0.07	258.6	-0.4873		
339.53	-0.073	258.5	-0.4926		
339.57	-0.073	258.5	-0.4971		
339.60	-0.074	258.3	-0.5015		
339.63	-0.077	258.1	-0.5068		
339.67	-0.079	257.9	-0.5122		
339.70	-0.081	257.8	-0.5175		
339.73	-0.083	257.6	-0.5175		
339.77	-0.086	257.5	-0.5237		
339.80	-0.086	257.5	-0.529		
339.83	-0.087	257.3	-0.5335		
339.87	-0.09	257.1	-0.5388		
339.90	-0.092	257	-0.5441		
339.93	-0.094	256.8	-0.5494		
339.97	-0.097	256.6	-0.5494		
340.00	-0.099	256.5	-0.5557		
340.03	-0.099	256.5	-0.5601		
340.07	-0.1	256.3	-0.5654		
340.12	-0.104	256	-0.5708		
340.15	-0.104	256	-0.5743		
340.17	-0.105	255.8	-0.5787		
340.20	-0.109	255.6	-0.5858		
340.23	-0.11	255.5	-0.5894		
340.27	-0.111	255.3	-0.5947		
340.30	-0.114	255.1	-0.5947		
340.33	-0.116	255	-0.6		
340.37	-0.116	255	-0.6054		
340.40	-0.118	254.8	-0.6107		
340.43	-0.12	254.6	-0.6169		
340.47	-0.122	254.5	-0.6213		
340.50	-0.123	254.3	-0.6267		
340.53	-0.126	254.1	-0.6267		
340.57	-0.128	253.9	-0.6329		
340.60	-0.128	253.9	-0.6364		
340.63	-0.129	253.7	-0.6409		
340.67	-0.132	253.5	-0.6471		
340.70	-0.134	253.4	-0.6515		
340.73	-0.134	253.2	-0.6569		
340.77	-0.138	253	-0.6569		
340.80	-0.139	252.8	-0.6622		
340.83	-0.139	252.8	-0.6666		
340.87	-0.14	252.7	-0.6719		
340.90	-0.142	252.5	-0.6773		
340.93	-0.144	252.3	-0.6817		
340.97	-0.146	252.1	-0.687		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
341.00	-0.147	252	-0.687		
341.03	-0.149	251.8	-0.6915		
341.07	-0.149	251.8	-0.6968		
341.10	-0.151	251.6	-0.7021		
341.13	-0.153	251.5	-0.7066		
341.17	-0.155	251.3	-0.7119		
341.20	-0.155	251.1	-0.7154		
341.23	-0.157	251	-0.7154		
341.27	-0.16	250.8	-0.7208		
341.30	-0.16	250.8	-0.7261		
341.33	-0.161	250.6	-0.7305		
341.37	-0.163	250.4	-0.7359		
341.40	-0.164	250.3	-0.7403		
341.43	-0.165	250.1	-0.7447		
341.47	-0.167	249.9	-0.7447		
341.50	-0.169	249.8	-0.7501		
341.53	-0.169	249.8	-0.7545		
341.58	-0.171	249.4	-0.7589		
341.62	-0.172	249.3	-0.7625		
341.63	-0.172	249.3	-0.766		
341.67	-0.174	249.1	-0.7705		
341.70	-0.175	249	-0.7749		
341.73	-0.177	248.8	-0.7785		
341.77	-0.178	248.7	-0.782		
341.80	-0.18	248.5	-0.782		
341.83	-0.181	248.4	-0.7864		
341.87	-0.181	248.4	-0.79		
341.90	-0.182	248.2	-0.7944		
341.93	-0.183	248.1	-0.798		
341.97	-0.185	247.9	-0.8024		
342.00	-0.186	247.7	-0.806		
342.03	-0.187	247.6	-0.806		
342.07	-0.188	247.5	-0.8095		
342.10	-0.188	247.5	-0.8131		
342.13	-0.189	247.3	-0.8166		
342.17	-0.191	247.1	-0.8202		
342.20	-0.192	247	-0.8237		
342.23	-0.192	246.9	-0.8273		
342.27	-0.194	246.7	-0.8273		
342.30	-0.195	246.6	-0.8317		
342.33	-0.195	246.6	-0.8344		
342.37	-0.196	246.4	-0.837		
342.40	-0.197	246.3	-0.8406		
342.43	-0.199	246.1	-0.8441		
342.47	-0.199	246	-0.8468		
342.50	-0.2	245.9	-0.8468		
342.53	-0.2	245.7	-0.8495		
342.57	-0.2	245.7	-0.8521		
342.60	-0.202	245.6	-0.8557		
342.63	-0.203	245.4	-0.8592		
342.67	-0.204	245.3	-0.861		
342.70	-0.204	245.2	-0.8628		
342.73	-0.206	245	-0.8628		
342.77	-0.206	244.9	-0.8663		
342.80	-0.206	244.9	-0.8681		
342.83	-0.207	244.8	-0.8717		
342.87	-0.208	244.6	-0.8743		
342.90	-0.209	244.5	-0.8761		
342.93	-0.21	244.4	-0.8788		
342.97	-0.21	244.3	-0.8788		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
343.02	-0.211	244.1	-0.8832		
343.05	-0.211	244	-0.885		
343.07	-0.212	243.9	-0.885		
343.10	-0.212	243.8	-0.8876		
343.13	-0.212	243.8	-0.8894		
343.17	-0.213	243.7	-0.8912		
343.20	-0.213	243.6	-0.893		
343.23	-0.214	243.5	-0.8947		
343.27	-0.215	243.4	-0.8974		
343.30	-0.215	243.3	-0.8974		
343.33	-0.216	243.2	-0.8992		
343.37	-0.216	243.2	-0.901		
343.40	-0.216	243.1	-0.9027		
343.43	-0.216	243	-0.9045		
343.47	-0.217	242.9	-0.9063		
343.50	-0.217	242.8	-0.9072		
343.53	-0.217	242.7	-0.9072		
343.57	-0.218	242.6	-0.9089		
343.60	-0.218	242.6	-0.9107		
343.63	-0.218	242.6	-0.9116		
343.67	-0.218	242.5	-0.9134		
343.70	-0.219	242.4	-0.9143		
343.73	-0.219	242.3	-0.9152		
343.77	-0.219	242.2	-0.9152		
343.80	-0.22	242.1	-0.9169		
343.83	-0.22	242.1	-0.9178		
343.87	-0.219	242.1	-0.9187		
343.90	-0.219	242	-0.9196		
343.93	-0.219	242	-0.9214		
343.97	-0.22	241.9	-0.9223		
344.00	-0.22	241.8	-0.9223		
344.03	-0.219	241.8	-0.9231		
344.07	-0.219	241.8	-0.924		
344.10	-0.22	241.7	-0.9249		
344.13	-0.22	241.6	-0.9258		
344.17	-0.22	241.6	-0.9267		
344.20	-0.22	241.5	-0.9267		
344.23	-0.22	241.5	-0.9267		
344.27	-0.219	241.4	-0.9276		
344.30	-0.219	241.4	-0.9285		
344.33	-0.219	241.4	-0.9285		
344.37	-0.219	241.3	-0.9294		
344.40	-0.219	241.3	-0.9294		
344.43	-0.218	241.3	-0.9302		
344.48	-0.218	241.2	-0.9302		
344.52	-0.218	241.1	-0.9302		
344.53	-0.218	241.1	-0.9311		
344.57	-0.217	241.1	-0.9311		
344.60	-0.217	241	-0.9311		
344.63	-0.217	241	-0.9311		
344.67	-0.217	241	-0.9311		
344.70	-0.216	241	-0.932		
344.73	-0.216	241	-0.932		
344.77	-0.216	240.9	-0.932		
344.80	-0.215	240.9	-0.932		
344.83	-0.215	240.9	-0.932		
344.87	-0.215	240.9	-0.932		
344.90	-0.214	240.9	-0.932		
344.93	-0.214	240.9	-0.932		
344.97	-0.213	240.9	-0.9311		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
345.00	-0.212	240.9	-0.9311		
345.03	-0.212	240.8	-0.9311		
345.07	-0.212	240.8	-0.9311		
345.10	-0.212	240.8	-0.9311		
345.13	-0.211	240.8	-0.9302		
345.17	-0.21	240.8	-0.9302		
345.20	-0.209	240.8	-0.9302		
345.23	-0.209	240.8	-0.9302		
345.27	-0.208	240.8	-0.9302		
345.30	-0.207	240.8	-0.9302		
345.33	-0.207	240.8	-0.9294		
345.37	-0.206	240.8	-0.9294		
345.40	-0.206	240.8	-0.9285		
345.43	-0.206	240.8	-0.9285		
345.47	-0.204	240.9	-0.9285		
345.50	-0.203	240.9	-0.9285		
345.53	-0.202	240.9	-0.9276		
345.57	-0.202	240.9	-0.9276		
345.60	-0.201	240.9	-0.9267		
345.63	-0.2	240.9	-0.9267		
345.67	-0.2	240.9	-0.9258		
345.70	-0.198	241	-0.9249		
345.73	-0.197	241	-0.9249		
345.77	-0.196	241	-0.9249		
345.80	-0.196	241	-0.924		
345.83	-0.195	241	-0.924		
345.87	-0.195	241.1	-0.9231		
345.90	-0.192	241.1	-0.9223		
345.95	-0.192	241.1	-0.9223		
345.98	-0.192	241.2	-0.9214		
346.00	-0.19	241.2	-0.9205		
346.03	-0.189	241.3	-0.9205		
346.07	-0.188	241.3	-0.9205		
346.10	-0.185	241.4	-0.9196		
346.13	-0.185	241.4	-0.9178		
346.17	-0.186	241.4	-0.9178		
346.20	-0.185	241.4	-0.9169		
346.23	-0.183	241.5	-0.916		
346.27	-0.182	241.5	-0.9152		
346.30	-0.18	241.6	-0.9152		
346.33	-0.179	241.6	-0.9143		
346.37	-0.179	241.6	-0.9134		
346.40	-0.178	241.7	-0.9125		
346.43	-0.175	241.7	-0.9107		
346.47	-0.175	241.8	-0.9107		
346.50	-0.173	241.8	-0.9089		
346.53	-0.171	241.9	-0.9089		
346.57	-0.17	242	-0.9081		
346.60	-0.17	242	-0.9072		
346.63	-0.169	242	-0.9063		
346.67	-0.168	242.1	-0.9054		
346.70	-0.165	242.2	-0.9036		
346.73	-0.165	242.2	-0.9027		
346.77	-0.162	242.3	-0.9027		
346.80	-0.161	242.4	-0.9018		
346.83	-0.161	242.4	-0.9001		
346.87	-0.16	242.4	-0.8992		
346.90	-0.158	242.5	-0.8983		
346.93	-0.156	242.6	-0.8965		
346.97	-0.154	242.7	-0.8947		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
347.00	-0.153	242.7	-0.8947		
347.03	-0.15	242.8	-0.8939		
347.07	-0.15	242.8	-0.8921		
347.10	-0.151	242.9	-0.8912		
347.13	-0.149	243	-0.8894		
347.17	-0.146	243.1	-0.8876		
347.20	-0.145	243.1	-0.8868		
347.23	-0.142	243.3	-0.8868		
347.27	-0.141	243.3	-0.885		
347.30	-0.141	243.3	-0.8832		
347.33	-0.139	243.4	-0.8823		
347.38	-0.136	243.6	-0.8797		
347.42	-0.136	243.6	-0.8788		
347.43	-0.135	243.7	-0.8779		
347.47	-0.132	243.8	-0.8761		
347.50	-0.13	243.9	-0.8743		
347.53	-0.129	244	-0.8726		
347.57	-0.126	244.1	-0.8708		
347.60	-0.125	244.2	-0.8708		
347.63	-0.125	244.2	-0.869		
347.67	-0.123	244.3	-0.8672		
347.70	-0.12	244.4	-0.8646		
347.73	-0.118	244.5	-0.8628		
347.77	-0.117	244.6	-0.861		
347.80	-0.115	244.7	-0.861		
347.83	-0.113	244.9	-0.8601		
347.87	-0.113	244.9	-0.8575		
347.90	-0.111	245	-0.8557		
347.93	-0.108	245.1	-0.8539		
347.97	-0.107	245.2	-0.8521		
348.00	-0.106	245.3	-0.8504		
348.03	-0.103	245.5	-0.8504		
348.07	-0.1	245.6	-0.8468		
348.10	-0.1	245.6	-0.845		
348.13	-0.1	245.7	-0.8433		
348.17	-0.097	245.8	-0.8406		
348.20	-0.094	246	-0.8388		
348.23	-0.093	246	-0.8362		
348.27	-0.09	246.2	-0.8362		
348.30	-0.087	246.3	-0.8335		
348.33	-0.087	246.3	-0.8317		
348.37	-0.087	246.4	-0.8299		
348.40	-0.084	246.6	-0.8264		
348.43	-0.081	246.7	-0.8237		
348.47	-0.08	246.8	-0.8211		
348.50	-0.077	247	-0.8211		
348.53	-0.075	247.1	-0.8184		
348.57	-0.075	247.1	-0.8166		
348.60	-0.074	247.2	-0.814		
348.63	-0.071	247.4	-0.8113		
348.67	-0.068	247.5	-0.8078		
348.70	-0.067	247.6	-0.806		
348.73	-0.064	247.8	-0.806		
348.77	-0.061	247.9	-0.8024		
348.80	-0.061	247.9	-0.7998		
348.85	-0.06	248.1	-0.798		
348.88	-0.056	248.3	-0.7953		
348.90	-0.056	248.3	-0.7927		
348.93	-0.055	248.4	-0.7891		
348.97	-0.052	248.6	-0.7864		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
349.00	-0.049	248.7	-0.7829		
349.03	-0.047	248.9	-0.7802		
349.07	-0.045	249	-0.7802		
349.10	-0.042	249.1	-0.7767		
349.13	-0.042	249.1	-0.774		
349.17	-0.041	249.3	-0.7714		
349.20	-0.037	249.4	-0.7678		
349.23	-0.035	249.6	-0.7643		
349.27	-0.034	249.7	-0.7616		
349.30	-0.031	249.9	-0.7616		
349.33	-0.027	250.1	-0.7572		
349.37	-0.027	250.1	-0.7545		
349.40	-0.028	250.2	-0.7518		
349.43	-0.024	250.4	-0.7474		
349.47	-0.02	250.5	-0.743		
349.50	-0.02	250.7	-0.7403		
349.53	-0.017	250.8	-0.7403		
349.57	-0.014	251	-0.7367		
349.60	-0.014	251	-0.7332		
349.63	-0.012	251.2	-0.7288		
349.67	-0.009	251.3	-0.7252		
349.70	-0.006	251.5	-0.7217		
349.73	-0.006	251.6	-0.719		
349.77	-0.002	251.8	-0.719		
349.80	-0.001	251.9	-0.7146		
349.83	-0.001	251.9	-0.711		
349.87	0.002	252.1	-0.7066		
349.90	0.005	252.3	-0.7021		
349.93	0.007	252.4	-0.6986		
349.97	0.009	252.6	-0.695		
350.00	0.011	252.8	-0.695		
350.03	0.014	252.9	-0.6906		
350.07	0.014	252.9	-0.687		
350.10	0.016	253.1	-0.6826		
350.13	0.019	253.3	-0.679		
350.17	0.022	253.4	-0.6746		
350.20	0.023	253.6	-0.6702		
350.23	0.026	253.8	-0.6657		
350.28	0.028	253.9	-0.6622		
350.32	0.029	254.1	-0.6595		
350.33	0.031	254.3	-0.6542		
350.37	0.036	254.4	-0.6542		
350.40	0.036	254.4	-0.6498		
350.43	0.036	254.6	-0.6462		
350.47	0.038	254.7	-0.6418		
350.50	0.042	254.9	-0.6373		
350.53	0.044	255.1	-0.6329		
350.57	0.046	255.2	-0.6284		
350.60	0.05	255.4	-0.6284		
350.63	0.05	255.4	-0.624		
350.67	0.05	255.5	-0.6213		
350.70	0.051	255.7	-0.6178		
350.73	0.056	255.9	-0.6125		
350.77	0.056	256	-0.6089		
350.80	0.059	256.2	-0.6027		
350.83	0.064	256.4	-0.6027		
350.87	0.064	256.4	-0.5974		
350.90	0.064	256.5	-0.5929		
350.93	0.066	256.7	-0.5876		
350.97	0.07	256.9	-0.5832		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
351.00	0.071	257	-0.5787			
351.03	0.073	257.2	-0.5734			
351.07	0.077	257.4	-0.5734			
351.10	0.077	257.4	-0.5681			
351.13	0.077	257.5	-0.5645			
351.17	0.08	257.6	-0.5583			
351.20	0.084	257.8	-0.553			
351.23	0.086	258	-0.5468			
351.27	0.085	258.1	-0.5441			
351.30	0.09	258.3	-0.5441			
351.33	0.09	258.3	-0.5388			
351.37	0.09	258.5	-0.5352			
351.40	0.093	258.6	-0.5299			
351.43	0.096	258.8	-0.5237			
351.47	0.098	259	-0.5184			
351.50	0.1	259.1	-0.5131			
351.53	0.103	259.3	-0.5131			
351.57	0.103	259.3	-0.5077			
351.60	0.104	259.4	-0.5024			
351.63	0.107	259.6	-0.4971			
351.67	0.109	259.8	-0.4926			
351.70	0.11	259.9	-0.4873			
351.75	0.112	260.1	-0.4829			
351.78	0.113	260.2	-0.4793			
351.80	0.116	260.4	-0.474			
351.83	0.118	260.5	-0.4687			
351.87	0.121	260.7	-0.4687			
351.90	0.121	260.7	-0.4633			
351.93	0.122	260.8	-0.4589			
351.97	0.124	261	-0.4536			
352.00	0.127	261.1	-0.4491			
352.03	0.128	261.3	-0.4447			
352.07	0.13	261.4	-0.4394			
352.10	0.132	261.6	-0.4394			
352.13	0.132	261.6	-0.4349			
352.17	0.135	261.7	-0.4296			
352.20	0.139	262	-0.4216			
352.23	0.139	262.1	-0.4181			
352.27	0.138	262.2	-0.4154			
352.30	0.141	262.4	-0.4101			
352.33	0.144	262.5	-0.4101			
352.37	0.144	262.5	-0.4057			
352.40	0.147	262.7	-0.4003			
352.43	0.147	262.8	-0.3959			
352.47	0.149	263	-0.3914			
352.50	0.151	263.1	-0.387			
352.53	0.154	263.3	-0.3808			
352.57	0.155	263.4	-0.3808			
352.60	0.155	263.4	-0.3764			
352.63	0.156	263.5	-0.3728			
352.67	0.159	263.7	-0.3675			
352.70	0.161	263.8	-0.363			
352.73	0.162	264	-0.3586			
352.77	0.164	264.1	-0.3542			
352.80	0.168	264.3	-0.3542			
352.83	0.168	264.3	-0.3471			
352.87	0.166	264.4	-0.3453			
352.90	0.168	264.5	-0.3409			
352.93	0.171	264.7	-0.3364			
352.97	0.172	264.8	-0.332			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
353.00	0.174	264.9	-0.3275			
353.03	0.179	265.1	-0.3275			
353.07	0.179	265.1	-0.3204			
353.10	0.174	265.2	-0.3196			
353.13	0.176	265.3	-0.316			
353.17	0.181	265.5	-0.3107			
353.22	0.183	265.6	-0.3062			
353.23	0.183	265.7	-0.3027			
353.27	0.182	265.8	-0.3			
353.30	0.185	265.9	-0.2965			
353.33	0.186	266	-0.2929			
353.37	0.188	266.1	-0.2929			
353.40	0.19	266.1	-0.2885			
353.43	0.19	266.3	-0.2849			
353.47	0.191	266.4	-0.2805			
353.50	0.193	266.6	-0.2761			
353.53	0.194	266.7	-0.2725			
353.57	0.195	266.8	-0.269			
353.60	0.2	267	-0.269			
353.63	0.197	267	-0.2636			
353.67	0.197	267	-0.2619			
353.70	0.198	267.1	-0.2592			
353.73	0.201	267.2	-0.2548			
353.77	0.201	267.4	-0.2521			
353.80	0.202	267.5	-0.2485			
353.83	0.204	267.6	-0.2485			
353.87	0.205	267.6	-0.2459			
353.90	0.205	267.7	-0.2423			
353.93	0.206	267.8	-0.2397			
353.97	0.208	267.9	-0.2361			
354.00	0.208	268	-0.2334			
354.03	0.209	268.1	-0.2308			
354.07	0.211	268.2	-0.2308			
354.10	0.212	268.2	-0.2272			
354.13	0.212	268.3	-0.2246			
354.17	0.212	268.4	-0.2219			
354.20	0.214	268.6	-0.2175			
354.23	0.217	268.7	-0.2148			
354.27	0.215	268.7	-0.213			
354.30	0.214	268.8	-0.213			
354.33	0.217	268.8	-0.2121			
354.37	0.217	268.9	-0.2095			
354.40	0.217	269	-0.2068			
354.43	0.219	269.1	-0.2042			
354.47	0.22	269.2	-0.2015			
354.50	0.223	269.3	-0.1979			
354.53	0.221	269.4	-0.1979			
354.57	0.222	269.4	-0.1971			
354.60	0.222	269.5	-0.1953			
354.65	0.223	269.7	-0.1926			
354.68	0.224	269.7	-0.1908			
354.70	0.224	269.7	-0.1891			
354.73	0.225	269.8	-0.1864			
354.77	0.226	269.9	-0.1846			
354.80	0.226	270	-0.1829			
354.83	0.226	270.1	-0.1811			
354.87	0.227	270.2	-0.1811			
354.90	0.228	270.2	-0.1802			
354.93	0.228	270.2	-0.1784			
354.97	0.228	270.3	-0.1775			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
355.00	0.228	270.4	-0.1758			
355.03	0.231	270.5	-0.1731			
355.07	0.228	270.6	-0.1731			
355.10	0.229	270.7	-0.1731			
355.13	0.23	270.7	-0.1713			
355.17	0.23	270.7	-0.1695			
355.20	0.231	270.8	-0.1687			
355.23	0.231	270.9	-0.1669			
355.27	0.231	271	-0.166			
355.30	0.232	271	-0.1651			
355.33	0.234	271.1	-0.1651			
355.37	0.231	271.1	-0.1624			
355.40	0.231	271.1	-0.1624			
355.43	0.232	271.2	-0.1616			
355.47	0.232	271.3	-0.1607			
355.50	0.233	271.3	-0.1598			
355.53	0.235	271.4	-0.158			
355.57	0.234	271.5	-0.158			
355.60	0.234	271.5	-0.158			
355.63	0.231	271.5	-0.158			
355.67	0.232	271.6	-0.1571			
355.70	0.233	271.6	-0.1553			
355.73	0.234	271.7	-0.1544			
355.77	0.233	271.7	-0.1544			
355.80	0.235	271.8	-0.1544			
355.83	0.235	271.8	-0.1527			
355.87	0.232	271.8	-0.1536			
355.90	0.231	271.9	-0.1536			
355.93	0.232	271.9	-0.1527			
355.97	0.233	272	-0.1509			
356.00	0.235	272	-0.15			
356.03	0.233	272.1	-0.15			
356.07	0.233	272.1	-0.1509			
356.12	0.232	272.1	-0.1509			
356.15	0.231	272.2	-0.1509			
356.17	0.232	272.2	-0.15			
356.20	0.232	272.2	-0.15			
356.23	0.232	272.3	-0.1491			
356.27	0.231	272.3	-0.1491			
356.30	0.231	272.3	-0.1482			
356.33	0.231	272.4	-0.1491			
356.37	0.23	272.4	-0.1491			
356.40	0.23	272.4	-0.1491			
356.43	0.23	272.5	-0.1482			
356.47	0.231	272.5	-0.1482			
356.50	0.23	272.5	-0.1491			
356.53	0.226	272.5	-0.1491			
356.57	0.226	272.5	-0.1491			
356.60	0.229	272.6	-0.1491			
356.63	0.226	272.6	-0.1482			
356.67	0.226	272.6	-0.1491			
356.70	0.226	272.6	-0.1491			
356.73	0.226	272.7	-0.1482			
356.77	0.224	272.7	-0.15			
356.80	0.224	272.7	-0.15			
356.83	0.224	272.7	-0.15			
356.87	0.224	272.7	-0.15			
356.90	0.224	272.8	-0.15			
356.93	0.221	272.7	-0.1509			
356.97	0.22	272.7	-0.1509			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
357.00	0.222	272.8	-0.1509			
357.03	0.22	272.8	-0.1509			
357.07	0.219	272.8	-0.1509			
357.10	0.218	272.8	-0.1518			
357.13	0.218	272.8	-0.1518			
357.17	0.215	272.8	-0.1527			
357.20	0.214	272.8	-0.1536			
357.23	0.214	272.9	-0.1536			
357.27	0.214	272.9	-0.1527			
357.30	0.215	272.9	-0.1527			
357.33	0.214	272.9	-0.1536			
357.37	0.214	272.9	-0.1536			
357.40	0.211	272.9	-0.1544			
357.43	0.211	272.9	-0.1544			
357.47	0.21	272.9	-0.1553			
357.50	0.208	272.9	-0.1562			
357.55	0.205	272.8	-0.1571			
357.58	0.205	272.8	-0.1571			
357.60	0.206	272.9	-0.1571			
357.63	0.205	272.9	-0.1571			
357.67	0.203	272.9	-0.158			
357.70	0.203	272.9	-0.158			
357.73	0.204	272.9	-0.1589			
357.77	0.198	272.8	-0.1607			
357.80	0.199	272.8	-0.1607			
357.83	0.199	272.8	-0.1607			
357.87	0.197	272.8	-0.1607			
357.90	0.196	272.8	-0.1624			
357.93	0.196	272.8	-0.1624			
357.97	0.195	272.8	-0.1633			
358.00	0.192	272.7	-0.1642			
358.03	0.192	272.8	-0.1651			
358.07	0.19	272.7	-0.166			
358.10	0.188	272.7	-0.166			
358.13	0.187	272.7	-0.1669			
358.17	0.187	272.7	-0.1669			
358.20	0.186	272.7	-0.1687			
358.23	0.184	272.6	-0.1695			
358.27	0.183	272.6	-0.1704			
358.30	0.181	272.6	-0.1713			
358.33	0.18	272.6	-0.1713			
358.37	0.178	272.6	-0.1722			
358.40	0.178	272.5	-0.1731			
358.43	0.177	272.5	-0.174			
358.47	0.175	272.5	-0.1749			
358.50	0.174	272.4	-0.1758			
358.53	0.172	272.4	-0.1775			
358.57	0.17	272.4	-0.1775			
358.60	0.17	272.4	-0.1775			
358.63	0.17	272.4	-0.1784			
358.67	0.166	272.3	-0.1811			
358.70	0.164	272.2	-0.1811			
358.73	0.164	272.2	-0.182			
358.77	0.161	272.2	-0.1837			
358.80	0.16	272.1	-0.1837			
358.83	0.158	272.1	-0.1846			
358.87	0.158	272.1	-0.1855			
358.90	0.157	272.1	-0.1873			
358.93	0.154	272	-0.1882			
358.97	0.153	272	-0.19			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
359.02	0.151	271.9	-0.1908			
359.05	0.15	271.9	-0.1917			
359.07	0.148	271.9	-0.1935			
359.10	0.146	271.8	-0.1944			
359.13	0.144	271.7	-0.1944			
359.17	0.142	271.7	-0.1962			
359.20	0.142	271.7	-0.1979			
359.23	0.141	271.6	-0.1997			
359.27	0.138	271.6	-0.2015			
359.30	0.137	271.5	-0.2024			
359.33	0.135	271.5	-0.2042			
359.37	0.132	271.4	-0.2042			
359.40	0.133	271.4	-0.2059			
359.43	0.133	271.4	-0.2068			
359.47	0.127	271.2	-0.2104			
359.50	0.126	271.2	-0.2113			
359.53	0.125	271.1	-0.213			
359.57	0.122	271.1	-0.2148			
359.60	0.121	271	-0.2148			
359.63	0.12	271	-0.2157			
359.67	0.12	271	-0.2175			
359.70	0.117	270.9	-0.2201			
359.73	0.111	270.7	-0.2237			
359.77	0.112	270.7	-0.2246			
359.80	0.11	270.7	-0.2263			
359.83	0.108	270.5	-0.2263			
359.87	0.107	270.5	-0.2281			
359.90	0.107	270.5	-0.229			
359.93	0.103	270.4	-0.2326			
359.97	0.101	270.3	-0.2352			
360.00	0.1	270.2	-0.2361			
360.03	0.098	270.2	-0.2379			
360.07	0.093	270	-0.2379			
360.10	0.093	270	-0.2414			
360.13	0.093	270	-0.2432			
360.17	0.091	269.9	-0.2459			
360.20	0.088	269.8	-0.2477			
360.23	0.087	269.7	-0.2503			
360.27	0.084	269.6	-0.253			
360.30	0.081	269.5	-0.253			
360.33	0.08	269.5	-0.2556			
360.37	0.08	269.4	-0.2574			
360.40	0.077	269.3	-0.261			
360.45	0.073	269.2	-0.2636			
360.48	0.073	269.1	-0.2654			
360.50	0.072	269.1	-0.2672			
360.53	0.068	269	-0.2707			
360.57	0.066	268.9	-0.2725			
360.60	0.066	268.8	-0.2752			
360.63	0.061	268.6	-0.2752			
360.67	0.06	268.6	-0.2787			
360.70	0.06	268.6	-0.2805			
360.73	0.058	268.5	-0.2832			
360.77	0.055	268.4	-0.2867			
360.80	0.053	268.3	-0.2885			
360.83	0.051	268.1	-0.2929			
360.87	0.047	268	-0.2929			
360.90	0.046	268	-0.2965			
360.93	0.046	267.9	-0.2982			
360.97	0.044	267.8	-0.3018			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
361.00	0.04	267.7	-0.3053		
361.03	0.04	267.6	-0.308		
361.07	0.038	267.4	-0.3116		
361.10	0.032	267.3	-0.3116		
361.13	0.032	267.3	-0.316		
361.17	0.032	267.2	-0.3178		
361.20	0.03	267.1	-0.3213		
361.23	0.027	267	-0.3249		
361.27	0.024	266.9	-0.3284		
361.30	0.023	266.7	-0.3311		
361.33	0.02	266.6	-0.3311		
361.37	0.017	266.6	-0.3355		
361.40	0.017	266.5	-0.3391		
361.43	0.015	266.3	-0.3417		
361.47	0.012	266.2	-0.3453		
361.50	0.01	266.1	-0.3488		
361.53	0.008	266	-0.3524		
361.57	0.005	265.8	-0.3524		
361.60	0.004	265.8	-0.3568		
361.63	0.004	265.7	-0.3604		
361.67	0.002	265.6	-0.3639		
361.70	-0.003	265.4	-0.3684		
361.73	-0.003	265.3	-0.3719		
361.77	-0.006	265.1	-0.3772		
361.80	-0.009	265	-0.3772		
361.83	-0.011	265	-0.3808		
361.87	-0.011	264.9	-0.3843		
361.92	-0.015	264.6	-0.3888		
361.95	-0.016	264.6	-0.3914		
361.97	-0.016	264.5	-0.395		
362.00	-0.018	264.3	-0.3994		
362.03	-0.023	264.2	-0.4039		
362.07	-0.024	264	-0.4065		
362.10	-0.026	263.9	-0.411		
362.13	-0.029	263.7	-0.411		
362.17	-0.031	263.7	-0.4154		
362.20	-0.031	263.6	-0.4199		
362.23	-0.033	263.4	-0.4243		
362.27	-0.037	263.3	-0.4287		
362.30	-0.038	263.1	-0.4332		
362.33	-0.04	263	-0.4385		
362.37	-0.044	262.8	-0.4385		
362.40	-0.044	262.8	-0.4438		
362.43	-0.044	262.7	-0.4465		
362.47	-0.048	262.5	-0.4527		
362.50	-0.05	262.3	-0.4562		
362.53	-0.052	262.2	-0.4616		
362.57	-0.054	262	-0.466		
362.60	-0.057	261.8	-0.466		
362.63	-0.059	261.8	-0.4704		
362.67	-0.059	261.7	-0.4749		
362.70	-0.061	261.5	-0.4802		
362.73	-0.064	261.3	-0.4847		
362.77	-0.065	261.2	-0.49		
362.80	-0.067	261	-0.4944		
362.83	-0.072	260.8	-0.4944		
362.87	-0.072	260.8	-0.5006		
362.90	-0.072	260.7	-0.5051		
362.93	-0.074	260.5	-0.5104		
362.97	-0.077	260.3	-0.5157		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
363.00	-0.079	260.2	-0.5219		
363.03	-0.081	260	-0.5273		
363.07	-0.084	259.8	-0.5273		
363.10	-0.085	259.8	-0.5326		
363.13	-0.085	259.7	-0.537		
363.17	-0.087	259.5	-0.5423		
363.20	-0.09	259.3	-0.5477		
363.23	-0.092	259.2	-0.5521		
363.27	-0.094	259	-0.5574		
363.30	-0.097	258.8	-0.5574		
363.33	-0.098	258.8	-0.5637		
363.38	-0.099	258.5	-0.5725		
363.40	-0.103	258.3	-0.5725		
363.43	-0.103	258.3	-0.5779		
363.47	-0.103	258.2	-0.5832		
363.50	-0.106	257.9	-0.5885		
363.53	-0.109	257.8	-0.5938		
363.57	-0.11	257.6	-0.5983		
363.60	-0.111	257.5	-0.6036		
363.63	-0.114	257.3	-0.6036		
363.67	-0.117	257.3	-0.6089		
363.70	-0.117	257.1	-0.6151		
363.73	-0.118	256.9	-0.6205		
363.77	-0.121	256.7	-0.6258		
363.80	-0.122	256.6	-0.6302		
363.83	-0.123	256.4	-0.6347		
363.87	-0.126	256.2	-0.6347		
363.90	-0.128	256.2	-0.64		
363.93	-0.128	256.1	-0.6453		
363.97	-0.129	255.9	-0.6506		
364.00	-0.132	255.7	-0.6569		
364.03	-0.133	255.5	-0.6613		
364.07	-0.134	255.4	-0.6666		
364.10	-0.138	255.2	-0.6666		
364.13	-0.139	255.2	-0.6728		
364.17	-0.139	255	-0.6764		
364.20	-0.14	254.8	-0.6817		
364.23	-0.143	254.6	-0.687		
364.27	-0.143	254.5	-0.6915		
364.30	-0.146	254.3	-0.6977		
364.33	-0.149	254.1	-0.6977		
364.37	-0.149	254.1	-0.703		
364.40	-0.149	254	-0.7074		
364.43	-0.15	253.8	-0.7119		
364.47	-0.153	253.6	-0.7172		
364.50	-0.154	253.4	-0.7217		
364.53	-0.156	253.2	-0.727		
364.57	-0.158	253	-0.727		
364.60	-0.159	253	-0.7323		
364.63	-0.159	252.8	-0.7367		
364.67	-0.16	252.7	-0.7403		
364.70	-0.163	252.5	-0.7474		
364.73	-0.164	252.3	-0.7518		
364.77	-0.165	252.2	-0.7563		
364.82	-0.167	252	-0.7607		
364.85	-0.168	251.9	-0.7643		
364.87	-0.169	251.7	-0.7678		
364.90	-0.171	251.5	-0.7678		
364.93	-0.173	251.5	-0.7722		
364.97	-0.173	251.4	-0.7767		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
365.00	-0.174	251.2	-0.7811		
365.03	-0.176	251	-0.7856		
365.07	-0.177	250.9	-0.7891		
365.10	-0.177	250.7	-0.7936		
365.13	-0.181	250.5	-0.7936		
365.17	-0.18	250.5	-0.798		
365.20	-0.18	250.4	-0.8015		
365.23	-0.181	250.3	-0.8042		
365.27	-0.184	250.1	-0.8095		
365.30	-0.184	249.9	-0.814		
365.33	-0.186	249.7	-0.8184		
365.37	-0.188	249.5	-0.8184		
365.40	-0.188	249.5	-0.822		
365.43	-0.188	249.4	-0.8255		
365.47	-0.189	249.3	-0.8291		
365.50	-0.191	249.1	-0.8326		
365.53	-0.191	249	-0.8353		
365.57	-0.193	248.8	-0.8388		
365.60	-0.195	248.7	-0.8388		
365.63	-0.195	248.7	-0.8433		
365.67	-0.195	248.5	-0.8459		
365.70	-0.196	248.4	-0.8486		
365.73	-0.197	248.3	-0.8521		
365.77	-0.198	248.1	-0.8548		
365.80	-0.199	248	-0.8583		
365.83	-0.201	247.8	-0.8583		
365.87	-0.2	247.8	-0.861		
365.90	-0.2	247.7	-0.8637		
365.93	-0.202	247.6	-0.8663		
365.97	-0.204	247.4	-0.8699		
366.00	-0.204	247.3	-0.8717		
366.03	-0.204	247.2	-0.8752		
366.07	-0.205	247	-0.8752		
366.10	-0.206	247	-0.877		
366.13	-0.206	246.9	-0.8797		
366.17	-0.207	246.8	-0.8823		
366.20	-0.208	246.7	-0.885		
366.23	-0.208	246.5	-0.8876		
366.28	-0.21	246.4	-0.8903		
366.32	-0.21	246.3	-0.8921		
366.33	-0.21	246.2	-0.8939		
366.37	-0.21	246.1	-0.8965		
366.40	-0.212	245.9	-0.8965		
366.43	-0.212	245.9	-0.8992		
366.47	-0.212	245.8	-0.901		
366.50	-0.213	245.7	-0.9027		
366.53	-0.214	245.6	-0.9054		
366.57	-0.214	245.5	-0.9072		
366.60	-0.215	245.4	-0.9089		
366.63	-0.215	245.3	-0.9089		
366.67	-0.215	245.3	-0.9098		
366.70	-0.215	245.2	-0.9116		
366.73	-0.216	245.1	-0.9143		
366.77	-0.216	245	-0.916		
366.80	-0.217	244.9	-0.9169		
366.83	-0.217	244.8	-0.9187		
366.87	-0.217	244.7	-0.9187		
366.90	-0.218	244.7	-0.9205		
366.93	-0.218	244.6	-0.9214		
366.97	-0.219	244.5	-0.9231		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
367.00	-0.218	244.4	-0.9249		
367.03	-0.219	244.3	-0.9258		
367.07	-0.219	244.2	-0.9276		
367.10	-0.219	244.1	-0.9276		
367.13	-0.219	244.1	-0.9285		
367.17	-0.219	244.1	-0.9294		
367.20	-0.219	244	-0.9302		
367.23	-0.219	243.9	-0.932		
367.27	-0.22	243.9	-0.9329		
367.30	-0.22	243.8	-0.9338		
367.33	-0.219	243.7	-0.9338		
367.37	-0.22	243.7	-0.9347		
367.40	-0.22	243.7	-0.9356		
367.43	-0.22	243.6	-0.9356		
367.47	-0.219	243.6	-0.9365		
367.50	-0.22	243.5	-0.9373		
367.53	-0.219	243.5	-0.9382		
367.57	-0.219	243.4	-0.9382		
367.60	-0.219	243.4	-0.9391		
367.63	-0.219	243.3	-0.9391		
367.67	-0.219	243.3	-0.94		
367.72	-0.219	243.3	-0.94		
367.75	-0.219	243.2	-0.9409		
367.77	-0.219	243.2	-0.9409		
367.80	-0.218	243.1	-0.9418		
367.83	-0.218	243.1	-0.9418		
367.87	-0.218	243	-0.9418		
367.90	-0.217	243	-0.9418		
367.93	-0.217	243	-0.9427		
367.97	-0.217	243	-0.9427		
368.00	-0.217	243	-0.9427		
368.03	-0.216	242.9	-0.9427		
368.07	-0.216	242.9	-0.9427		
368.10	-0.216	242.9	-0.9427		
368.13	-0.215	242.9	-0.9427		
368.17	-0.215	242.9	-0.9427		
368.20	-0.215	242.8	-0.9427		
368.23	-0.215	242.8	-0.9436		
368.27	-0.214	242.8	-0.9427		
368.30	-0.213	242.8	-0.9427		
368.33	-0.213	242.8	-0.9427		
368.37	-0.212	242.8	-0.9427		
368.40	-0.211	242.8	-0.9427		
368.43	-0.211	242.8	-0.9427		
368.47	-0.211	242.8	-0.9427		
368.50	-0.21	242.8	-0.9418		
368.53	-0.21	242.8	-0.9418		
368.57	-0.209	242.8	-0.9409		
368.60	-0.208	242.8	-0.9409		
368.63	-0.207	242.8	-0.9409		
368.67	-0.207	242.8	-0.9409		
368.70	-0.206	242.8	-0.9409		
368.73	-0.206	242.8	-0.94		
368.77	-0.205	242.8	-0.94		
368.80	-0.204	242.8	-0.9391		
368.83	-0.203	242.8	-0.9391		
368.87	-0.202	242.8	-0.9391		
368.90	-0.202	242.8	-0.9382		
368.93	-0.202	242.8	-0.9382		
368.97	-0.2	242.9	-0.9373		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
369.00	-0.199	242.9	-0.9373		
369.03	-0.199	242.9	-0.9365		
369.07	-0.197	242.9	-0.9365		
369.10	-0.196	242.9	-0.9356		
369.13	-0.196	243	-0.9356		
369.18	-0.194	243	-0.9347		
369.22	-0.193	243	-0.9338		
369.23	-0.193	243	-0.9338		
369.27	-0.193	243.1	-0.9329		
369.30	-0.192	243.1	-0.9329		
369.33	-0.19	243.1	-0.932		
369.37	-0.189	243.2	-0.9311		
369.40	-0.187	243.2	-0.9311		
369.43	-0.187	243.2	-0.9302		
369.47	-0.187	243.3	-0.9294		
369.50	-0.185	243.3	-0.9285		
369.53	-0.184	243.4	-0.9276		
369.57	-0.182	243.4	-0.9267		
369.60	-0.182	243.4	-0.9267		
369.63	-0.18	243.5	-0.9267		
369.67	-0.179	243.5	-0.9249		
369.70	-0.179	243.5	-0.924		
369.73	-0.178	243.6	-0.9231		
369.77	-0.176	243.6	-0.9223		
369.80	-0.174	243.7	-0.9214		
369.83	-0.174	243.7	-0.9205		
369.87	-0.171	243.8	-0.9205		
369.90	-0.171	243.8	-0.9196		
369.93	-0.171	243.9	-0.9187		
369.97	-0.169	243.9	-0.9169		
370.00	-0.167	244	-0.916		
370.03	-0.166	244.1	-0.9152		
370.07	-0.164	244.1	-0.9134		
370.10	-0.162	244.2	-0.9134		
370.13	-0.161	244.2	-0.9125		
370.17	-0.161	244.3	-0.9116		
370.20	-0.16	244.3	-0.9098		
370.23	-0.157	244.5	-0.9089		
370.27	-0.157	244.5	-0.9081		
370.30	-0.154	244.6	-0.9054		
370.33	-0.153	244.7	-0.9054		
370.37	-0.151	244.7	-0.9045		
370.40	-0.151	244.8	-0.9036		
370.43	-0.15	244.9	-0.9018		
370.47	-0.147	245	-0.9001		
370.50	-0.146	245	-0.8992		
370.53	-0.145	245.1	-0.8974		
370.57	-0.142	245.2	-0.8974		
370.62	-0.141	245.3	-0.8947		
370.65	-0.14	245.4	-0.893		
370.67	-0.138	245.5	-0.893		
370.70	-0.136	245.5	-0.8921		
370.73	-0.136	245.6	-0.8903		
370.77	-0.134	245.7	-0.8885		
370.80	-0.13	245.8	-0.8859		
370.83	-0.13	245.9	-0.885		
370.87	-0.129	246	-0.8832		
370.90	-0.127	246.1	-0.8832		
370.93	-0.123	246.1	-0.8814		
370.97	-0.123	246.2	-0.8797		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
371.00	-0.124	246.3	-0.8779		
371.03	-0.121	246.4	-0.8761		
371.07	-0.119	246.5	-0.8743		
371.10	-0.118	246.6	-0.8726		
371.13	-0.115	246.7	-0.8726		
371.17	-0.113	246.7	-0.8699		
371.20	-0.113	246.9	-0.8681		
371.23	-0.111	247	-0.8663		
371.27	-0.109	247.1	-0.8646		
371.30	-0.106	247.2	-0.8619		
371.33	-0.106	247.3	-0.8601		
371.37	-0.102	247.4	-0.8601		
371.40	-0.101	247.4	-0.8583		
371.43	-0.101	247.5	-0.8566		
371.47	-0.1	247.6	-0.8548		
371.50	-0.096	247.8	-0.8512		
371.53	-0.095	247.9	-0.8495		
371.57	-0.093	248	-0.8468		
371.60	-0.09	248.2	-0.8468		
371.63	-0.088	248.2	-0.8441		
371.67	-0.088	248.3	-0.8415		
371.70	-0.087	248.4	-0.8397		
371.73	-0.083	248.6	-0.837		
371.77	-0.082	248.7	-0.8344		
371.80	-0.079	248.8	-0.8317		
371.83	-0.077	248.9	-0.8317		
371.87	-0.075	248.9	-0.8299		
371.90	-0.075	249.1	-0.8264		
371.93	-0.073	249.2	-0.8237		
371.97	-0.07	249.4	-0.8211		
372.00	-0.069	249.5	-0.8184		
372.03	-0.067	249.6	-0.8157		
372.08	-0.064	249.8	-0.8131		
372.12	-0.063	249.9	-0.8113		
372.13	-0.061	250	-0.8078		
372.17	-0.057	250.2	-0.8078		
372.20	-0.057	250.2	-0.8051		
372.23	-0.057	250.3	-0.8024		
372.27	-0.054	250.5	-0.7989		
372.30	-0.051	250.6	-0.7962		
372.33	-0.049	250.8	-0.7936		
372.37	-0.047	250.9	-0.79		
372.40	-0.044	251.1	-0.79		
372.43	-0.042	251.1	-0.7864		
372.47	-0.042	251.2	-0.7838		
372.50	-0.041	251.3	-0.7811		
372.53	-0.037	251.5	-0.7776		
372.57	-0.036	251.6	-0.7749		
372.60	-0.034	251.8	-0.7714		
372.63	-0.03	252	-0.7714		
372.67	-0.028	252	-0.7678		
372.70	-0.028	252.1	-0.7643		
372.73	-0.026	252.3	-0.7607		
372.77	-0.023	252.5	-0.7572		
372.80	-0.022	252.6	-0.7545		
372.83	-0.02	252.7	-0.7509		
372.87	-0.015	252.9	-0.7509		
372.90	-0.015	252.9	-0.7456		
372.93	-0.015	253	-0.743		
372.97	-0.012	253.2	-0.7394		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
373.00	-0.009	253.4	-0.735		
373.03	-0.007	253.6	-0.7314		
373.07	-0.005	253.7	-0.7279		
373.10	-0.001	253.9	-0.7279		
373.13	-0.001	253.9	-0.7234		
373.17	-0.001	254.1	-0.7208		
373.20	0.001	254.2	-0.7163		
373.23	0.006	254.4	-0.7119		
373.27	0.007	254.6	-0.7083		
373.30	0.009	254.7	-0.7048		
373.33	0.012	254.9	-0.7048		
373.37	0.014	254.9	-0.7003		
373.40	0.014	255.1	-0.6968		
373.43	0.016	255.2	-0.6924		
373.47	0.02	255.4	-0.6879		
373.50	0.021	255.5	-0.6844		
373.55	0.023	255.7	-0.6808		
373.58	0.024	255.9	-0.6773		
373.60	0.028	256	-0.6728		
373.63	0.028	256.1	-0.6693		
373.67	0.032	256.3	-0.6693		
373.70	0.035	256.3	-0.6648		
373.73	0.035	256.5	-0.6604		
373.77	0.035	256.7	-0.656		
373.80	0.041	256.9	-0.6506		
373.83	0.041	257	-0.6471		
373.87	0.042	257.1	-0.6427		
373.90	0.046	257.3	-0.6427		
373.93	0.048	257.3	-0.6373		
373.97	0.048	257.5	-0.6338		
374.00	0.05	257.6	-0.6293		
374.03	0.055	257.9	-0.6231		
374.07	0.055	258	-0.6196		
374.10	0.057	258.2	-0.6151		
374.13	0.061	258.4	-0.6151		
374.17	0.062	258.4	-0.6098		
374.20	0.062	258.5	-0.6054		
374.23	0.065	258.7	-0.5992		
374.27	0.068	258.9	-0.5929		
374.30	0.071	259.1	-0.5885		
374.33	0.069	259.2	-0.5867		
374.37	0.075	259.4	-0.5867		
374.40	0.074	259.4	-0.5805		
374.43	0.074	259.5	-0.577		
374.47	0.078	259.7	-0.5708		
374.50	0.081	259.9	-0.5654		
374.53	0.083	260	-0.561		
374.57	0.085	260.2	-0.5557		
374.60	0.088	260.4	-0.5557		
374.63	0.089	260.4	-0.5503		
374.67	0.089	260.5	-0.5468		
374.70	0.091	260.7	-0.5415		
374.73	0.094	260.8	-0.5361		
374.77	0.096	261	-0.5308		
374.80	0.098	261.2	-0.5264		
374.83	0.101	261.3	-0.5264		
374.87	0.102	261.3	-0.5202		
374.90	0.102	261.5	-0.5148		
374.93	0.104	261.6	-0.5104		
374.98	0.108	261.9	-0.5051		

**Prova triassiale ciclica SNGR04-C4**

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
375.02	0.108	262	-0.5006			
375.03	0.109	262.1	-0.4962			
375.07	0.112	262.3	-0.4909			
375.10	0.114	262.5	-0.4855			
375.13	0.116	262.6	-0.4811			
375.17	0.119	262.8	-0.4811			
375.20	0.121	262.8	-0.4758			
375.23	0.121	263	-0.4704			
375.27	0.122	263.1	-0.466			
375.30	0.124	263.3	-0.4607			
375.33	0.129	263.5	-0.4527			
375.37	0.126	263.6	-0.4509			
375.40	0.13	263.7	-0.4509			
375.43	0.132	263.7	-0.4465			
375.47	0.132	263.9	-0.442			
375.50	0.134	264	-0.4358			
375.53	0.137	264.2	-0.4305			
375.57	0.139	264.3	-0.4252			
375.60	0.139	264.5	-0.4207			
375.63	0.143	264.7	-0.4207			
375.67	0.144	264.7	-0.4145			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
375.70	0.144	264.8	-0.4101			
375.73	0.145	264.9	-0.4057			
375.77	0.148	265.1	-0.4021			
375.80	0.149	265.2	-0.3968			
375.83	0.151	265.4	-0.3923			
375.87	0.155	265.5	-0.3923			
375.90	0.156	265.5	-0.3861			
375.93	0.156	265.7	-0.3817			
375.97	0.156	265.8	-0.3781			
376.00	0.159	266	-0.3737			
376.03	0.16	266.1	-0.3684			
376.07	0.162	266.2	-0.3639			
376.10	0.165	266.4	-0.3639			
376.13	0.165	266.4	-0.3586			
376.17	0.165	266.5	-0.3551			
376.20	0.169	266.7	-0.348			
376.23	0.168	266.8	-0.3453			
376.27	0.171	266.9	-0.3409			
376.30	0.171	267.1	-0.3364			
376.33	0.174	267.2	-0.3364			
376.37	0.176	267.2	-0.332			
376.40	0.176	267.3	-0.3275			
376.45	0.178	267.6	-0.324			
376.48	0.179	267.6	-0.3196			
376.50	0.179	267.7	-0.3169			
376.53	0.181	267.8	-0.3124			
376.57	0.183	268	-0.308			
376.60	0.184	268.1	-0.3045			
376.63	0.186	268.2	-0.3009			
376.67	0.187	268.4	-0.3009			
376.70	0.188	268.4	-0.2974			
376.73	0.188	268.5	-0.2938			
376.77	0.189	268.6	-0.2885			
376.80	0.191	268.7	-0.2849			
376.83	0.193	268.8	-0.2814			
376.87	0.194	269	-0.2778			
376.90	0.195	269.1	-0.2778			
376.93	0.197	269.1	-0.2743			
376.97	0.197	269.2	-0.2698			
377.00	0.197	269.3	-0.2672			
377.03	0.201	269.5	-0.2627			
377.07	0.199	269.5	-0.2601			
377.10	0.201	269.7	-0.2565			
377.13	0.203	269.8	-0.2565			
377.17	0.204	269.8	-0.253			
377.20	0.204	269.9	-0.2494			
377.23	0.208	270.1	-0.245			
377.27	0.205	270.1	-0.2432			
377.30	0.207	270.2	-0.2406			
377.33	0.208	270.3	-0.2379			
377.37	0.209	270.5	-0.2379			
377.40	0.211	270.5	-0.2343			
377.43	0.211	270.6	-0.2308			
377.47	0.213	270.8	-0.2272			
377.50	0.213	270.8	-0.2246			
377.53	0.212	270.9	-0.2237			
377.57	0.214	271	-0.2201			
377.60	0.217	271.2	-0.2201			
377.63	0.216	271.2	-0.2166			
377.67	0.216	271.2	-0.213			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
377.70	0.219	271.4	-0.2104			
377.73	0.217	271.4	-0.2095			
377.77	0.219	271.5	-0.2068			
377.80	0.219	271.6	-0.205			
377.83	0.221	271.7	-0.205			
377.88	0.221	271.8	-0.2006			
377.92	0.223	271.9	-0.1988			
377.93	0.222	272	-0.1988			
377.97	0.222	272	-0.1971			
378.00	0.222	272	-0.1953			
378.03	0.224	272.1	-0.1926			
378.07	0.227	272.3	-0.1891			
378.10	0.226	272.3	-0.1882			
378.13	0.224	272.4	-0.1873			
378.17	0.225	272.5	-0.1873			
378.20	0.227	272.5	-0.1855			
378.23	0.227	272.6	-0.1837			
378.27	0.227	272.6	-0.182			
378.30	0.228	272.7	-0.1802			
378.33	0.229	272.8	-0.1784			
378.37	0.229	272.9	-0.1766			
378.40	0.23	272.9	-0.1766			
378.43	0.23	272.9	-0.1766			
378.47	0.23	273	-0.1749			
378.50	0.23	273.1	-0.174			
378.53	0.231	273.2	-0.1722			
378.57	0.231	273.2	-0.1713			
378.60	0.231	273.3	-0.1704			
378.63	0.232	273.4	-0.1704			
378.67	0.232	273.4	-0.1687			
378.70	0.232	273.4	-0.1678			
378.73	0.234	273.5	-0.166			
378.77	0.231	273.6	-0.166			
378.80	0.232	273.6	-0.1651			
378.83	0.232	273.7	-0.1642			
378.87	0.233	273.8	-0.1642			
378.90	0.233	273.8	-0.1624			
378.93	0.233	273.8	-0.1616			
378.97	0.233	273.9	-0.1607			
379.00	0.233	273.9	-0.1607			
379.03	0.233	274	-0.1598			
379.07	0.236	274.1	-0.158			
379.10	0.234	274.1	-0.158			
379.13	0.232	274.1	-0.158			
379.17	0.232	274.1	-0.158			
379.20	0.232	274.2	-0.1571			
379.23	0.233	274.2	-0.1562			
379.27	0.233	274.3	-0.1562			
379.30	0.233	274.3	-0.1553			
379.35	0.232	274.4	-0.1553			
379.38	0.233	274.4	-0.1553			
379.40	0.232	274.5	-0.1544			
379.43	0.232	274.5	-0.1544			
379.47	0.233	274.5	-0.1544			
379.50	0.233	274.6	-0.1544			
379.53	0.231	274.6	-0.1544			
379.57	0.231	274.6	-0.1544			
379.60	0.231	274.6	-0.1536			
379.63	0.231	274.7	-0.1527			
379.67	0.233	274.7	-0.1527			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
379.70	0.231	274.7	-0.1527			
379.73	0.231	274.7	-0.1527			
379.77	0.228	274.7	-0.1536			
379.80	0.227	274.8	-0.1536			
379.83	0.23	274.9	-0.1527			
379.87	0.229	274.9	-0.1527			
379.90	0.226	274.9	-0.1527			
379.93	0.226	274.9	-0.1544			
379.97	0.226	274.9	-0.1536			
380.00	0.226	275	-0.1536			
380.03	0.226	275	-0.1527			
380.07	0.226	275	-0.1536			
380.10	0.225	275	-0.1536			
380.13	0.226	275.1	-0.1536			
380.17	0.224	275.1	-0.1536			
380.20	0.224	275.1	-0.1544			
380.23	0.223	275.1	-0.1544			
380.27	0.222	275.1	-0.1544			
380.30	0.219	275.1	-0.1562			
380.33	0.219	275.1	-0.1553			
380.37	0.222	275.2	-0.1553			
380.40	0.218	275.2	-0.1553			
380.43	0.218	275.1	-0.1562			
380.47	0.218	275.2	-0.1562			
380.50	0.219	275.2	-0.1562			
380.53	0.214	275.1	-0.158			
380.57	0.215	275.2	-0.1571			
380.60	0.215	275.2	-0.1571			
380.63	0.215	275.2	-0.1571			
380.67	0.215	275.2	-0.158			
380.70	0.211	275.2	-0.1598			
380.73	0.209	275.2	-0.1589			
380.77	0.212	275.2	-0.1589			
380.82	0.208	275.2	-0.1607			
380.83	0.208	275.2	-0.1598			
380.87	0.209	275.2	-0.1607			
380.90	0.207	275.2	-0.1616			
380.93	0.203	275.2	-0.1616			
380.97	0.202	275.2	-0.1633			
381.00	0.202	275.2	-0.1633			
381.03	0.204	275.2	-0.1624			
381.07	0.201	275.2	-0.1642			
381.10	0.2	275.2	-0.1642			
381.13	0.2	275.2	-0.1642			
381.17	0.2	275.2	-0.1642			
381.20	0.196	275.2	-0.1651			
381.23	0.196	275.1	-0.1669			
381.27	0.194	275.1	-0.1678			
381.30	0.193	275.1	-0.1687			
381.33	0.195	275.1	-0.1678			
381.37	0.189	275	-0.1704			
381.40	0.188	275	-0.1704			
381.43	0.19	275	-0.1713			
381.47	0.19	275.1	-0.1704			
381.50	0.188	275	-0.1722			
381.53	0.183	274.9	-0.174			
381.57	0.182	274.9	-0.1749			
381.60	0.183	274.9	-0.174			
381.63	0.183	274.9	-0.174			
381.67	0.18	274.9	-0.1749			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
381.70	0.18	274.9	-0.1766			
381.73	0.177	274.8	-0.1784			
381.77	0.176	274.8	-0.1784			
381.80	0.176	274.8	-0.1784			
381.83	0.172	274.7	-0.1802			
381.87	0.17	274.7	-0.1802			
381.90	0.17	274.7	-0.182			
381.93	0.17	274.7	-0.182			
381.97	0.169	274.7	-0.1829			
382.00	0.169	274.6	-0.1837			
382.03	0.163	274.6	-0.1864			
382.07	0.163	274.5	-0.1864			
382.10	0.163	274.5	-0.1864			
382.13	0.159	274.5	-0.1864			
382.17	0.159	274.4	-0.1891			
382.20	0.158	274.4	-0.1908			
382.25	0.156	274.4	-0.1908			
382.28	0.156	274.4	-0.1917			
382.30	0.155	274.3	-0.1935			
382.33	0.151	274.2	-0.1953			
382.37	0.148	274.2	-0.1979			
382.40	0.148	274.1	-0.1979			
382.43	0.146	274.1	-0.1979			
382.47	0.145	274.1	-0.1997			
382.50	0.145	274.1	-0.1997			
382.53	0.144	274	-0.2033			
382.57	0.137	273.9	-0.2059			
382.60	0.138	273.8	-0.2059			
382.63	0.138	273.8	-0.2068			
382.67	0.134	273.7	-0.2068			
382.70	0.132	273.7	-0.2095			
382.73	0.132	273.7	-0.2113			
382.77	0.131	273.6	-0.2121			
382.80	0.13	273.6	-0.213			
382.83	0.126	273.5	-0.2166			
382.87	0.123	273.4	-0.2184			
382.90	0.122	273.4	-0.2184			
382.93	0.12	273.4	-0.2201			
382.97	0.12	273.3	-0.221			
383.00	0.119	273.3	-0.2228			
383.03	0.117	273.2	-0.2246			
383.07	0.112	273	-0.2281			
383.10	0.112	273	-0.229			
383.13	0.11	272.9	-0.229			
383.17	0.108	272.9	-0.2308			
383.20	0.108	272.9	-0.2334			
383.23	0.107	272.8	-0.2343			
383.27	0.103	272.7	-0.2379			
383.30	0.101	272.6	-0.2397			
383.33	0.1	272.6	-0.2414			
383.37	0.098	272.5	-0.2414			
383.40	0.095	272.5	-0.2432			
383.43	0.095	272.4	-0.2459			
383.47	0.092	272.3	-0.2503			
383.50	0.089	272.2	-0.2512			
383.53	0.088	272.1	-0.2539			
383.57	0.086	272	-0.2556			
383.60	0.085	271.9	-0.2556			
383.63	0.08	271.9	-0.2574			
383.67	0.08	271.8	-0.2601			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
383.72	0.078	271.7	-0.2619		
383.75	0.076	271.7	-0.2645		
383.77	0.076	271.6	-0.2672		
383.80	0.074	271.5	-0.269		
383.83	0.071	271.4	-0.2725		
383.87	0.069	271.3	-0.2752		
383.90	0.067	271.2	-0.2778		
383.93	0.064	271.1	-0.2778		
383.97	0.062	271.1	-0.2805		
384.00	0.062	271	-0.2832		
384.03	0.059	270.9	-0.2867		
384.07	0.057	270.7	-0.2894		
384.10	0.055	270.6	-0.2929		
384.13	0.053	270.5	-0.2956		
384.17	0.05	270.3	-0.2956		
384.20	0.048	270.3	-0.2991		
384.23	0.048	270.2	-0.3018		
384.27	0.046	270.1	-0.3045		
384.30	0.043	270	-0.308		
384.33	0.04	269.9	-0.3107		
384.37	0.04	269.8	-0.3133		
384.40	0.036	269.7	-0.3133		
384.43	0.033	269.7	-0.3178		
384.47	0.033	269.5	-0.3204		
384.50	0.032	269.4	-0.3231		
384.53	0.029	269.3	-0.3267		
384.57	0.027	269.2	-0.3302		
384.60	0.024	269.1	-0.3338		
384.63	0.023	268.9	-0.3338		
384.67	0.019	268.9	-0.3373		
384.70	0.019	268.8	-0.3417		
384.73	0.018	268.7	-0.3453		
384.77	0.015	268.5	-0.3488		
384.80	0.011	268.4	-0.3524		
384.83	0.011	268.3	-0.3551		
384.87	0.007	268.1	-0.3551		
384.90	0.005	268.1	-0.3595		
384.93	0.005	268	-0.3622		
384.97	0.003	267.9	-0.3666		
385.00	0	267.7	-0.371		
385.03	-0.002	267.6	-0.3746		
385.07	-0.004	267.4	-0.379		
385.10	-0.006	267.3	-0.379		
385.15	-0.008	267.2	-0.3852		
385.18	-0.01	267.1	-0.3888		
385.20	-0.013	266.9	-0.3888		
385.23	-0.016	266.9	-0.3932		
385.27	-0.016	266.8	-0.3977		
385.30	-0.016	266.7	-0.4012		
385.33	-0.02	266.5	-0.4057		
385.37	-0.022	266.3	-0.4083		
385.40	-0.023	266.2	-0.4119		
385.43	-0.028	266	-0.4119		
385.47	-0.029	266	-0.4181		
385.50	-0.029	265.9	-0.4216		
385.53	-0.031	265.8	-0.4261		
385.57	-0.034	265.6	-0.4314		
385.60	-0.036	265.4	-0.4349		
385.63	-0.038	265.3	-0.4403		
385.67	-0.042	265.1	-0.4403		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
385.70	-0.043	265.1	-0.4456		
385.73	-0.043	264.9	-0.45		
385.77	-0.045	264.8	-0.4545		
385.80	-0.048	264.6	-0.4598		
385.83	-0.051	264.5	-0.4642		
385.87	-0.052	264.3	-0.4687		
385.90	-0.055	264.1	-0.4687		
385.93	-0.057	264.1	-0.474		
385.97	-0.057	264	-0.4784		
386.00	-0.059	263.8	-0.4829		
386.03	-0.062	263.6	-0.4882		
386.07	-0.064	263.5	-0.4935		
386.10	-0.065	263.3	-0.498		
386.13	-0.069	263.1	-0.498		
386.17	-0.071	263.1	-0.5042		
386.20	-0.071	263	-0.5095		
386.23	-0.072	262.8	-0.5139		
386.27	-0.076	262.6	-0.521		
386.30	-0.077	262.5	-0.5255		
386.33	-0.079	262.3	-0.5308		
386.37	-0.083	262.1	-0.5308		
386.40	-0.083	262.1	-0.537		
386.43	-0.083	261.9	-0.5406		
386.47	-0.086	261.7	-0.5459		
386.50	-0.088	261.5	-0.5521		
386.53	-0.09	261.4	-0.5566		
386.57	-0.093	261.2	-0.5619		
386.62	-0.094	261	-0.5663		
386.65	-0.095	260.9	-0.5708		
386.67	-0.097	260.7	-0.5761		
386.70	-0.099	260.5	-0.5761		
386.73	-0.102	260.3	-0.5814		
386.77	-0.102	260.3	-0.5867		
386.80	-0.104	260.2	-0.5921		
386.83	-0.106	260	-0.5974		
386.87	-0.109	259.8	-0.6027		
386.90	-0.11	259.7	-0.608		
386.93	-0.112	259.5	-0.608		
386.97	-0.115	259.3	-0.6134		
387.00	-0.115	259.3	-0.6187		
387.03	-0.116	259.1	-0.6231		
387.07	-0.118	259	-0.6293		
387.10	-0.12	258.8	-0.6338		
387.13	-0.122	258.6	-0.6391		
387.17	-0.125	258.4	-0.6391		
387.20	-0.126	258.2	-0.6453		
387.23	-0.126	258.2	-0.6506		
387.27	-0.127	258.1	-0.6551		
387.30	-0.13	257.8	-0.6613		
387.33	-0.132	257.6	-0.6666		
387.37	-0.133	257.5	-0.6711		
387.40	-0.135	257.3	-0.6711		
387.43	-0.138	257.1	-0.6773		
387.47	-0.138	257.1	-0.6826		
387.50	-0.138	257	-0.687		
387.53	-0.141	256.8	-0.6924		
387.57	-0.143	256.6	-0.6977		
387.60	-0.144	256.4	-0.7021		
387.63	-0.146	256.3	-0.7021		
387.67	-0.148	256.1	-0.7074		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
387.70	-0.148	256.1	-0.7128			
387.73	-0.149	255.9	-0.7181			
387.77	-0.151	255.7	-0.7234			
387.80	-0.154	255.5	-0.7288			
387.83	-0.154	255.4	-0.7332			
387.87	-0.156	255.2	-0.7332			
387.90	-0.158	255	-0.7376			
387.93	-0.158	255	-0.743			
387.97	-0.159	254.9	-0.7483			
388.00	-0.161	254.6	-0.7536			
388.05	-0.163	254.5	-0.758			
388.08	-0.163	254.3	-0.7616			
388.10	-0.165	254.2	-0.766			
388.13	-0.167	254	-0.7705			
388.17	-0.167	253.9	-0.774			
388.20	-0.169	253.7	-0.774			
388.23	-0.171	253.5	-0.7785			
388.27	-0.171	253.5	-0.7829			
388.30	-0.172	253.3	-0.7873			
388.33	-0.174	253.1	-0.7918			
388.37	-0.175	252.9	-0.7962			
388.40	-0.177	252.8	-0.8007			
388.43	-0.179	252.6	-0.8007			
388.47	-0.179	252.4	-0.8051			
388.50	-0.179	252.4	-0.8086			
388.53	-0.18	252.3	-0.8122			
388.57	-0.181	252.1	-0.8166			
388.60	-0.184	251.9	-0.8211			
388.63	-0.185	251.8	-0.8246			
388.67	-0.185	251.7	-0.8246			
388.70	-0.188	251.5	-0.8282			
388.73	-0.188	251.5	-0.8326			
388.77	-0.188	251.3	-0.8353			
388.80	-0.189	251.2	-0.8397			
388.83	-0.191	251	-0.8433			
388.87	-0.192	250.9	-0.8468			
388.90	-0.193	250.7	-0.8468			
388.93	-0.194	250.6	-0.8504			
388.97	-0.194	250.6	-0.8539			
389.00	-0.195	250.4	-0.8575			
389.03	-0.197	250.2	-0.8601			
389.07	-0.197	250.1	-0.8628			
389.10	-0.198	250	-0.8654			
389.13	-0.2	249.8	-0.8654			
389.17	-0.2	249.7	-0.869			
389.20	-0.2	249.7	-0.8717			
389.23	-0.201	249.5	-0.8743			
389.27	-0.203	249.3	-0.8779			
389.30	-0.203	249.2	-0.8805			
389.33	-0.204	249.1	-0.8832			
389.37	-0.205	248.9	-0.8832			
389.40	-0.206	248.9	-0.8868			
389.43	-0.206	248.9	-0.8894			
389.47	-0.207	248.7	-0.8921			
389.52	-0.208	248.5	-0.8947			
389.55	-0.208	248.5	-0.8965			
389.57	-0.208	248.4	-0.8992			
389.60	-0.209	248.2	-0.901			
389.63	-0.21	248.1	-0.9036			
389.67	-0.21	248	-0.9063			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
389.70	-0.212	247.9	-0.9063			
389.73	-0.212	247.7	-0.9081			
389.77	-0.212	247.7	-0.9098			
389.80	-0.212	247.6	-0.9125			
389.83	-0.213	247.5	-0.9143			
389.87	-0.214	247.4	-0.916			
389.90	-0.214	247.3	-0.9178			
389.93	-0.215	247.2	-0.9178			
389.97	-0.215	247.1	-0.9196			
390.00	-0.215	247.1	-0.9214			
390.03	-0.215	247	-0.9231			
390.07	-0.216	246.9	-0.9249			
390.10	-0.217	246.8	-0.9267			
390.13	-0.217	246.7	-0.9285			
390.17	-0.217	246.6	-0.9285			
390.20	-0.217	246.5	-0.9302			
390.23	-0.217	246.5	-0.9311			
390.27	-0.218	246.4	-0.9338			
390.30	-0.218	246.3	-0.9347			
390.33	-0.218	246.3	-0.9356			
390.37	-0.218	246.2	-0.9365			
390.40	-0.218	246.1	-0.9365			
390.43	-0.22	246	-0.9373			
390.47	-0.22	246	-0.94			
390.50	-0.219	245.9	-0.94			
390.53	-0.219	245.9	-0.9418			
390.57	-0.22	245.8	-0.9427			
390.60	-0.219	245.7	-0.9436			
390.63	-0.219	245.7	-0.9436			
390.67	-0.22	245.6	-0.9444			
390.70	-0.22	245.6	-0.9453			
390.73	-0.22	245.5	-0.9462			
390.77	-0.219	245.5	-0.9471			
390.80	-0.22	245.4	-0.948			
390.83	-0.219	245.3	-0.948			
390.87	-0.218	245.3	-0.948			
390.90	-0.219	245.2	-0.948			
390.93	-0.219	245.2	-0.9498			
390.98	-0.219	245.1	-0.9498			
391.02	-0.219	245.1	-0.9507			
391.03	-0.219	245.1	-0.9507			
391.07	-0.218	245	-0.9516			
391.10	-0.218	245	-0.9516			
391.13	-0.219	244.9	-0.9524			
391.17	-0.218	244.9	-0.9524			
391.20	-0.218	244.9	-0.9524			
391.23	-0.217	244.8	-0.9524			
391.27	-0.217	244.8	-0.9524			
391.30	-0.217	244.8	-0.9533			
391.33	-0.217	244.8	-0.9533			
391.37	-0.216	244.8	-0.9533			
391.40	-0.217	244.7	-0.9533			
391.43	-0.216	244.7	-0.9533			
391.47	-0.215	244.7	-0.9533			
391.50	-0.215	244.7	-0.9533			
391.53	-0.214	244.7	-0.9533			
391.57	-0.214	244.7	-0.9533			
391.60	-0.214	244.6	-0.9533			
391.63	-0.213	244.6	-0.9533			
391.67	-0.213	244.6	-0.9533			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
391.70	-0.212	244.6	-0.9533		
391.73	-0.212	244.6	-0.9533		
391.77	-0.211	244.6	-0.9533		
391.80	-0.21	244.6	-0.9524		
391.83	-0.21	244.6	-0.9524		
391.87	-0.21	244.5	-0.9516		
391.90	-0.208	244.6	-0.9516		
391.93	-0.208	244.6	-0.9516		
391.97	-0.208	244.6	-0.9516		
392.00	-0.207	244.6	-0.9507		
392.03	-0.206	244.6	-0.9507		
392.07	-0.205	244.6	-0.9507		
392.10	-0.205	244.6	-0.9507		
392.13	-0.204	244.6	-0.9507		
392.17	-0.203	244.6	-0.9498		
392.20	-0.203	244.6	-0.9498		
392.23	-0.202	244.7	-0.9489		
392.27	-0.201	244.7	-0.948		
392.30	-0.2	244.7	-0.948		
392.33	-0.199	244.7	-0.9471		
392.37	-0.198	244.7	-0.9471		
392.42	-0.197	244.8	-0.9462		
392.45	-0.197	244.8	-0.9462		
392.47	-0.196	244.8	-0.9462		
392.50	-0.194	244.8	-0.9453		
392.53	-0.194	244.8	-0.9444		
392.57	-0.193	244.9	-0.9444		
392.60	-0.192	244.9	-0.9436		
392.63	-0.191	244.9	-0.9427		
392.67	-0.19	245	-0.9418		
392.70	-0.188	245	-0.9409		
392.73	-0.187	245.1	-0.9409		
392.77	-0.187	245.1	-0.94		
392.80	-0.187	245.1	-0.94		
392.83	-0.184	245.2	-0.9391		
392.87	-0.184	245.2	-0.9382		
392.90	-0.183	245.2	-0.9373		
392.93	-0.181	245.3	-0.9373		
392.97	-0.18	245.3	-0.9365		
393.00	-0.18	245.3	-0.9356		
393.03	-0.179	245.4	-0.9347		
393.07	-0.176	245.5	-0.9329		
393.10	-0.175	245.6	-0.932		
393.13	-0.175	245.6	-0.932		
393.17	-0.173	245.6	-0.932		
393.20	-0.172	245.7	-0.9302		
393.23	-0.172	245.7	-0.9294		
393.27	-0.17	245.8	-0.9285		
393.30	-0.169	245.8	-0.9276		
393.33	-0.167	245.9	-0.9267		
393.37	-0.166	246	-0.9249		
393.40	-0.164	246.1	-0.9249		
393.43	-0.162	246.1	-0.924		
393.47	-0.162	246.1	-0.9231		
393.50	-0.161	246.2	-0.9214		
393.53	-0.159	246.3	-0.9205		
393.57	-0.158	246.3	-0.9196		
393.60	-0.156	246.4	-0.9178		
393.63	-0.154	246.5	-0.9178		
393.67	-0.152	246.6	-0.916		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
393.70	-0.152	246.6	-0.9152		
393.73	-0.151	246.6	-0.9134		
393.77	-0.149	246.7	-0.9125		
393.80	-0.148	246.8	-0.9107		
393.83	-0.147	246.9	-0.9089		
393.88	-0.145	247	-0.9081		
393.92	-0.143	247.1	-0.9063		
393.93	-0.142	247.1	-0.9054		
393.97	-0.139	247.2	-0.9036		
394.00	-0.137	247.3	-0.9036		
394.03	-0.137	247.3	-0.9018		
394.07	-0.136	247.4	-0.9001		
394.10	-0.134	247.5	-0.8983		
394.13	-0.132	247.6	-0.8965		
394.17	-0.13	247.7	-0.8956		
394.20	-0.129	247.8	-0.893		
394.23	-0.126	247.9	-0.893		
394.27	-0.126	247.9	-0.8912		
394.30	-0.125	248	-0.8894		
394.33	-0.123	248.2	-0.8876		
394.37	-0.12	248.3	-0.8859		
394.40	-0.119	248.4	-0.8841		
394.43	-0.116	248.5	-0.8805		
394.47	-0.113	248.6	-0.8805		
394.50	-0.113	248.6	-0.8797		
394.53	-0.113	248.7	-0.8779		
394.57	-0.112	248.8	-0.8761		
394.60	-0.108	248.9	-0.8734		
394.63	-0.107	249	-0.8708		
394.67	-0.104	249.2	-0.869		
394.70	-0.102	249.3	-0.869		
394.73	-0.102	249.3	-0.8672		
394.77	-0.101	249.4	-0.8654		
394.80	-0.099	249.5	-0.8628		
394.83	-0.096	249.7	-0.8601		
394.87	-0.095	249.8	-0.8592		
394.90	-0.092	250	-0.8557		
394.93	-0.089	250.1	-0.8557		
394.97	-0.089	250.1	-0.8539		
395.00	-0.087	250.2	-0.8512		
395.03	-0.086	250.3	-0.8495		
395.07	-0.084	250.5	-0.8468		
395.10	-0.082	250.6	-0.8441		
395.13	-0.078	250.8	-0.8441		
395.17	-0.076	250.9	-0.8406		
395.20	-0.076	250.9	-0.8388		
395.23	-0.076	251	-0.837		
395.27	-0.073	251.2	-0.8335		
395.32	-0.069	251.3	-0.8308		
395.35	-0.068	251.4	-0.8282		
395.37	-0.068	251.5	-0.8273		
395.40	-0.064	251.7	-0.8246		
395.43	-0.063	251.8	-0.8211		
395.47	-0.061	252	-0.8175		
395.50	-0.057	252.1	-0.8175		
395.53	-0.057	252.1	-0.8149		
395.57	-0.056	252.2	-0.8122		
395.60	-0.053	252.4	-0.8086		
395.63	-0.051	252.5	-0.806		
395.67	-0.05	252.7	-0.8033		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
395.70	-0.046	252.9	-0.7998		
395.73	-0.044	253	-0.7998		
395.77	-0.044	253	-0.7971		
395.80	-0.043	253.1	-0.7944		
395.83	-0.039	253.3	-0.79		
395.87	-0.037	253.5	-0.7873		
395.90	-0.035	253.6	-0.7838		
395.93	-0.032	253.8	-0.7802		
395.97	-0.03	254	-0.7802		
396.00	-0.03	254	-0.7767		
396.03	-0.028	254.1	-0.7731		
396.07	-0.026	254.3	-0.7696		
396.10	-0.023	254.5	-0.766		
396.13	-0.021	254.6	-0.7625		
396.17	-0.019	254.8	-0.7589		
396.20	-0.016	254.9	-0.7589		
396.23	-0.016	254.9	-0.7554		
396.27	-0.013	255.1	-0.7518		
396.30	-0.012	255.2	-0.7492		
396.33	-0.009	255.4	-0.7438		
396.37	-0.008	255.5	-0.7412		
396.40	-0.005	255.7	-0.7367		
396.43	-0.001	255.9	-0.7367		
396.47	-0.001	255.9	-0.7323		
396.50	0	256.1	-0.7288		
396.53	0.003	256.2	-0.7252		
396.57	0.005	256.4	-0.7208		
396.60	0.007	256.6	-0.7172		
396.63	0.01	256.7	-0.7128		
396.67	0.012	256.9	-0.7128		
396.70	0.012	256.9	-0.7092		
396.73	0.014	257	-0.7057		
396.78	0.019	257.4	-0.7003		
396.82	0.019	257.4	-0.6968		
396.83	0.02	257.5	-0.6932		
396.87	0.023	257.7	-0.6897		
396.90	0.025	257.8	-0.6853		
396.93	0.028	258	-0.6808		
396.97	0.03	258.2	-0.6764		
397.00	0.033	258.4	-0.6764		
397.03	0.033	258.4	-0.6719		
397.07	0.034	258.5	-0.6684		
397.10	0.036	258.7	-0.664		
397.13	0.04	258.9	-0.6586		
397.17	0.04	259	-0.6551		
397.20	0.044	259.2	-0.6498		
397.23	0.047	259.4	-0.6498		
397.27	0.047	259.4	-0.6453		
397.30	0.048	259.5	-0.6409		
397.33	0.051	259.7	-0.6356		
397.37	0.054	259.9	-0.632		
397.40	0.055	260	-0.6276		
397.43	0.058	260.2	-0.6222		
397.47	0.06	260.4	-0.6222		
397.50	0.06	260.4	-0.6178		
397.53	0.062	260.5	-0.6125		
397.57	0.065	260.7	-0.6071		
397.60	0.068	260.9	-0.6027		
397.63	0.069	261.1	-0.5983		
397.67	0.071	261.2	-0.5929		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
397.70	0.073	261.4	-0.5929			
397.73	0.073	261.4	-0.5885			
397.77	0.076	261.6	-0.5832			
397.80	0.079	261.8	-0.5779			
397.83	0.081	262	-0.5725			
397.87	0.083	262.1	-0.5681			
397.90	0.084	262.3	-0.5637			
397.93	0.088	262.5	-0.5637			
397.97	0.088	262.5	-0.5574			
398.00	0.09	262.7	-0.553			
398.03	0.092	262.8	-0.5477			
398.07	0.094	263	-0.5423			
398.10	0.096	263.1	-0.5379			
398.13	0.098	263.3	-0.5317			
398.17	0.101	263.5	-0.5317			
398.20	0.101	263.5	-0.5273			
398.25	0.104	263.8	-0.5166			
398.27	0.107	264	-0.5166			
398.30	0.107	264	-0.5122			
398.33	0.108	264.1	-0.5077			
398.37	0.11	264.3	-0.5024			
398.40	0.112	264.4	-0.498			
398.43	0.114	264.6	-0.4926			
398.47	0.117	264.8	-0.4864			
398.50	0.119	264.9	-0.4864			
398.53	0.119	264.9	-0.4802			
398.57	0.12	265.1	-0.4758			
398.60	0.123	265.2	-0.4704			
398.63	0.125	265.4	-0.466			
398.67	0.127	265.5	-0.4607			
398.70	0.129	265.7	-0.4554			
398.73	0.132	265.9	-0.4554			
398.77	0.132	265.9	-0.45			
398.80	0.131	266	-0.4465			
398.83	0.134	266.1	-0.4412			
398.87	0.137	266.3	-0.4349			
398.90	0.139	266.5	-0.4305			
398.93	0.14	266.6	-0.4252			
398.97	0.144	266.8	-0.4252			
399.00	0.144	266.8	-0.4199			
399.03	0.144	266.9	-0.4163			
399.07	0.146	267.1	-0.411			
399.10	0.148	267.2	-0.4057			
399.13	0.15	267.4	-0.4021			
399.17	0.152	267.5	-0.3968			
399.20	0.153	267.7	-0.3968			
399.23	0.153	267.7	-0.3923			
399.27	0.156	267.8	-0.3861			
399.30	0.158	268	-0.3808			
399.33	0.159	268.1	-0.3772			
399.37	0.161	268.2	-0.3728			
399.40	0.162	268.4	-0.3675			
399.43	0.164	268.5	-0.3675			
399.47	0.164	268.5	-0.3639			
399.50	0.165	268.7	-0.3595			
399.53	0.168	268.8	-0.3542			
399.57	0.17	269	-0.3497			
399.60	0.171	269.1	-0.3453			
399.63	0.172	269.2	-0.3409			
399.68	0.175	269.4	-0.3355			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
399.72	0.174	269.5	-0.3338			
399.73	0.176	269.6	-0.3293			
399.77	0.178	269.7	-0.3293			
399.80	0.18	269.7	-0.3249			
399.83	0.18	269.9	-0.3213			
399.87	0.181	270	-0.3169			
399.90	0.183	270.1	-0.3133			
399.93	0.184	270.3	-0.3098			
399.97	0.185	270.4	-0.3053			
400.00	0.187	270.6	-0.3053			
400.03	0.188	270.6	-0.3018			
400.07	0.188	270.7	-0.2974			
400.10	0.19	270.8	-0.2938			
400.13	0.192	271	-0.2885			
400.17	0.193	271.1	-0.2849			
400.20	0.193	271.2	-0.2823			
400.23	0.195	271.3	-0.2823			
400.27	0.197	271.3	-0.2778			
400.30	0.197	271.4	-0.2743			
400.33	0.198	271.6	-0.2707			
400.37	0.199	271.7	-0.2672			
400.40	0.2	271.8	-0.2645			
400.43	0.201	271.9	-0.261			
400.47	0.203	272	-0.261			
400.50	0.204	272	-0.2565			
400.53	0.204	272.1	-0.2539			
400.57	0.205	272.3	-0.2503			
400.60	0.206	272.4	-0.2477			
400.63	0.207	272.5	-0.2432			
400.67	0.208	272.6	-0.2406			
400.70	0.21	272.7	-0.2406			
400.73	0.21	272.7	-0.2379			
400.77	0.21	272.8	-0.2352			
400.80	0.212	272.9	-0.2326			
400.83	0.213	273	-0.2299			
400.87	0.213	273.1	-0.2272			
400.90	0.215	273.2	-0.2246			
400.93	0.216	273.3	-0.2246			
400.97	0.217	273.3	-0.2219			
401.00	0.217	273.4	-0.2192			
401.03	0.217	273.5	-0.2166			
401.07	0.219	273.7	-0.213			
401.10	0.219	273.7	-0.2113			
401.15	0.22	273.8	-0.2095			
401.18	0.22	273.9	-0.2077			
401.20	0.221	274	-0.205			
401.23	0.222	274.1	-0.2033			
401.27	0.222	274.2	-0.2033			
401.30	0.223	274.2	-0.2015			
401.33	0.223	274.3	-0.1997			
401.37	0.224	274.4	-0.1971			
401.40	0.225	274.4	-0.1953			
401.43	0.225	274.5	-0.1935			
401.47	0.226	274.6	-0.1917			
401.50	0.227	274.7	-0.1917			
401.53	0.227	274.7	-0.19			
401.57	0.227	274.7	-0.1882			
401.60	0.228	274.9	-0.1864			
401.63	0.228	274.9	-0.1846			
401.67	0.229	275	-0.1829			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
401.70	0.229	275.1	-0.182			
401.73	0.229	275.2	-0.182			
401.77	0.23	275.2	-0.1802			
401.80	0.23	275.3	-0.1784			
401.83	0.23	275.3	-0.1784			
401.87	0.231	275.4	-0.1766			
401.90	0.231	275.5	-0.1758			
401.93	0.231	275.5	-0.174			
401.97	0.234	275.6	-0.174			
402.00	0.231	275.6	-0.1722			
402.03	0.231	275.7	-0.1722			
402.07	0.231	275.7	-0.1713			
402.10	0.233	275.8	-0.1695			
402.13	0.233	275.9	-0.1687			
402.17	0.232	275.9	-0.1678			
402.20	0.233	276	-0.1678			
402.23	0.233	276	-0.1669			
402.27	0.233	276	-0.166			
402.30	0.233	276.1	-0.1651			
402.33	0.233	276.2	-0.1651			
402.37	0.233	276.2	-0.1642			
402.40	0.233	276.3	-0.1633			
402.43	0.233	276.3	-0.1633			
402.47	0.233	276.3	-0.1624			
402.50	0.233	276.4	-0.1616			
402.53	0.233	276.4	-0.1616			
402.58	0.233	276.5	-0.1607			
402.62	0.233	276.5	-0.1607			
402.63	0.233	276.6	-0.1598			
402.67	0.233	276.6	-0.1598			
402.70	0.233	276.6	-0.1589			
402.73	0.232	276.7	-0.1589			
402.77	0.232	276.7	-0.1589			
402.80	0.232	276.7	-0.1589			
402.83	0.232	276.8	-0.1589			
402.87	0.232	276.8	-0.158			
402.90	0.232	276.8	-0.158			
402.93	0.231	276.9	-0.158			
402.97	0.233	276.9	-0.1571			
403.00	0.23	277	-0.1571			
403.03	0.229	277	-0.158			
403.07	0.229	277	-0.158			
403.10	0.229	277	-0.158			
403.13	0.229	277	-0.158			
403.17	0.229	277.1	-0.158			
403.20	0.228	277.1	-0.158			
403.23	0.228	277.1	-0.158			
403.27	0.227	277.1	-0.158			
403.30	0.227	277.2	-0.158			
403.33	0.227	277.2	-0.158			
403.37	0.226	277.2	-0.158			
403.40	0.225	277.2	-0.158			
403.43	0.226	277.3	-0.158			
403.47	0.223	277.2	-0.158			
403.50	0.222	277.2	-0.1589			
403.53	0.222	277.3	-0.1589			
403.57	0.222	277.3	-0.1589			
403.60	0.222	277.3	-0.1589			
403.63	0.221	277.3	-0.1598			
403.67	0.22	277.3	-0.1598			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
403.70	0.22	277.4	-0.1598		
403.73	0.218	277.4	-0.1598		
403.77	0.218	277.4	-0.1607		
403.80	0.218	277.4	-0.1607		
403.83	0.217	277.4	-0.1616		
403.87	0.216	277.4	-0.1607		
403.90	0.217	277.4	-0.1616		
403.93	0.215	277.4	-0.1616		
403.97	0.211	277.4	-0.1616		
404.00	0.211	277.4	-0.1633		
404.05	0.212	277.4	-0.1633		
404.08	0.212	277.4	-0.1633		
404.10	0.212	277.4	-0.1633		
404.13	0.21	277.4	-0.1642		
404.17	0.208	277.4	-0.1651		
404.20	0.207	277.4	-0.166		
404.23	0.207	277.4	-0.166		
404.27	0.206	277.4	-0.166		
404.30	0.203	277.4	-0.1669		
404.33	0.203	277.4	-0.1669		
404.37	0.203	277.4	-0.1678		
404.40	0.203	277.4	-0.1687		
404.43	0.199	277.4	-0.1695		
404.47	0.199	277.4	-0.1695		
404.50	0.198	277.4	-0.1695		
404.53	0.196	277.4	-0.1704		
404.57	0.196	277.3	-0.1713		
404.60	0.196	277.3	-0.1713		
404.63	0.194	277.3	-0.1731		
404.67	0.193	277.3	-0.1731		
404.70	0.191	277.3	-0.174		
404.73	0.189	277.2	-0.174		
404.77	0.19	277.2	-0.1749		
404.80	0.19	277.3	-0.1749		
404.83	0.186	277.2	-0.1775		
404.87	0.185	277.2	-0.1775		
404.90	0.184	277.2	-0.1784		
404.93	0.183	277.1	-0.1784		
404.97	0.18	277.1	-0.1784		
405.00	0.18	277.1	-0.1793		
405.03	0.18	277.1	-0.1802		
405.07	0.179	277.1	-0.1811		
405.10	0.176	277	-0.182		
405.13	0.175	277	-0.1829		
405.17	0.173	276.9	-0.1846		
405.20	0.171	276.9	-0.1846		
405.23	0.17	276.9	-0.1855		
405.27	0.17	276.9	-0.1864		
405.30	0.169	276.9	-0.1873		
405.33	0.168	276.8	-0.1882		
405.37	0.164	276.8	-0.1908		
405.40	0.164	276.7	-0.1908		
405.43	0.162	276.7	-0.1908		
405.48	0.161	276.7	-0.1935		
405.52	0.159	276.6	-0.1944		
405.53	0.156	276.6	-0.1944		
405.57	0.155	276.6	-0.1962		
405.60	0.155	276.5	-0.1971		
405.63	0.153	276.5	-0.1988		
405.67	0.151	276.4	-0.1997		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
405.70	0.15	276.4	-0.2015		
405.73	0.148	276.3	-0.2024		
405.77	0.145	276.3	-0.2024		
405.80	0.145	276.3	-0.2042		
405.83	0.145	276.2	-0.205		
405.87	0.143	276.2	-0.2068		
405.90	0.14	276.1	-0.2086		
405.93	0.14	276.1	-0.2095		
405.97	0.135	276	-0.213		
406.00	0.133	275.9	-0.213		
406.03	0.132	275.9	-0.2139		
406.07	0.132	275.9	-0.2157		
406.10	0.131	275.8	-0.2175		
406.13	0.128	275.7	-0.2192		
406.17	0.126	275.7	-0.221		
406.20	0.125	275.6	-0.2228		
406.23	0.121	275.5	-0.2228		
406.27	0.12	275.5	-0.2246		
406.30	0.12	275.5	-0.2255		
406.33	0.119	275.4	-0.2272		
406.37	0.117	275.3	-0.229		
406.40	0.114	275.3	-0.2317		
406.43	0.11	275.1	-0.2352		
406.47	0.109	275.1	-0.2352		
406.50	0.107	275.1	-0.2361		
406.53	0.107	275	-0.2379		
406.57	0.106	274.9	-0.2397		
406.60	0.102	274.8	-0.2423		
406.63	0.101	274.7	-0.2441		
406.67	0.1	274.7	-0.2459		
406.70	0.096	274.6	-0.2459		
406.73	0.097	274.6	-0.2485		
406.77	0.097	274.6	-0.2494		
406.80	0.093	274.4	-0.2539		
406.83	0.088	274.3	-0.2565		
406.87	0.088	274.2	-0.2583		
406.90	0.086	274.1	-0.261		
406.95	0.084	274.1	-0.2627		
406.98	0.082	274	-0.2645		
407.00	0.081	273.9	-0.2663		
407.03	0.077	273.8	-0.2663		
407.07	0.076	273.8	-0.2698		
407.10	0.076	273.7	-0.2716		
407.13	0.074	273.6	-0.2743		
407.17	0.07	273.5	-0.2778		
407.20	0.069	273.4	-0.2796		
407.23	0.067	273.3	-0.2832		
407.27	0.063	273.2	-0.2832		
407.30	0.061	273.2	-0.2858		
407.33	0.061	273.1	-0.2885		
407.37	0.061	273	-0.2911		
407.40	0.056	272.8	-0.2956		
407.43	0.055	272.7	-0.2974		
407.47	0.054	272.6	-0.3009		
407.50	0.049	272.5	-0.3009		
407.53	0.048	272.5	-0.3045		
407.57	0.048	272.4	-0.3071		
407.60	0.046	272.3	-0.3098		
407.63	0.043	272.2	-0.3133		
407.67	0.041	272	-0.316		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
407.70	0.039	271.9	-0.3196			
407.73	0.035	271.8	-0.3196			
407.77	0.034	271.8	-0.3231			
407.80	0.034	271.7	-0.3258			
407.83	0.032	271.6	-0.3293			
407.87	0.029	271.4	-0.3329			
407.90	0.026	271.3	-0.3355			
407.93	0.025	271.2	-0.34			
407.97	0.021	271	-0.34			
408.00	0.02	271	-0.3435			
408.03	0.02	270.9	-0.3462			
408.07	0.018	270.8	-0.3497			
408.10	0.014	270.6	-0.3542			
408.13	0.012	270.5	-0.3577			
408.17	0.011	270.3	-0.3613			
408.20	0.006	270.1	-0.3613			
408.23	0.006	270.1	-0.3657			
408.27	0.006	270.1	-0.3684			
408.30	0.003	269.9	-0.3728			
408.33	-0.001	269.7	-0.3772			
408.37	-0.002	269.6	-0.3799			
408.42	-0.004	269.5	-0.3835			
408.45	-0.005	269.4	-0.3861			
408.47	-0.008	269.2	-0.3906			
408.50	-0.01	269.1	-0.395			
408.53	-0.013	268.9	-0.395			
408.57	-0.015	268.9	-0.3994			
408.60	-0.015	268.8	-0.403			
408.63	-0.017	268.6	-0.4065			
408.67	-0.021	268.5	-0.411			
408.70	-0.022	268.4	-0.4145			
408.73	-0.024	268.2	-0.419			
408.77	-0.029	268	-0.419			
408.80	-0.028	268	-0.4243			
408.83	-0.028	267.9	-0.4278			
408.87	-0.031	267.7	-0.4332			
408.90	-0.035	267.6	-0.4385			
408.93	-0.036	267.4	-0.442			
408.97	-0.038	267.3	-0.4465			
409.00	-0.041	267.1	-0.4465			
409.03	-0.043	267.1	-0.4509			
409.07	-0.043	267	-0.4554			
409.10	-0.045	266.8	-0.4607			
409.13	-0.048	266.6	-0.466			
409.17	-0.05	266.5	-0.4704			
409.20	-0.052	266.2	-0.4749			
409.23	-0.055	266.1	-0.4749			
409.27	-0.056	266.1	-0.4802			
409.30	-0.056	266	-0.4847			
409.33	-0.059	265.8	-0.49			
409.37	-0.062	265.6	-0.4953			
409.40	-0.064	265.5	-0.4997			
409.43	-0.066	265.3	-0.5051			
409.47	-0.068	265.1	-0.5051			
409.50	-0.071	265.1	-0.5104			
409.53	-0.071	264.9	-0.5157			
409.57	-0.072	264.8	-0.521			
409.60	-0.075	264.6	-0.5264			
409.63	-0.077	264.4	-0.5317			
409.67	-0.079	264.3	-0.537			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
409.70	-0.082	264.1	-0.537		
409.73	-0.084	264.1	-0.5432		
409.77	-0.084	263.9	-0.5486		
409.80	-0.085	263.7	-0.553		
409.85	-0.089	263.5	-0.5592		
409.88	-0.089	263.4	-0.5628		
409.90	-0.091	263.2	-0.5681		
409.93	-0.093	263	-0.5734		
409.97	-0.095	262.9	-0.5779		
410.00	-0.098	262.7	-0.5841		
410.03	-0.101	262.5	-0.5841		
410.07	-0.102	262.5	-0.5903		
410.10	-0.102	262.3	-0.5947		
410.13	-0.104	262.1	-0.6		
410.17	-0.107	261.9	-0.6063		
410.20	-0.108	261.7	-0.6107		
410.23	-0.109	261.6	-0.616		
410.27	-0.113	261.4	-0.616		
410.30	-0.114	261.4	-0.6222		
410.33	-0.114	261.2	-0.6267		
410.37	-0.115	261	-0.6329		
410.40	-0.119	260.8	-0.6382		
410.43	-0.12	260.6	-0.6435		
410.47	-0.122	260.5	-0.6489		
410.50	-0.124	260.3	-0.6489		
410.53	-0.126	260.3	-0.6533		
410.57	-0.126	260.1	-0.6586		
410.60	-0.128	259.9	-0.664		
410.63	-0.13	259.7	-0.6702		
410.67	-0.131	259.6	-0.6746		
410.70	-0.133	259.4	-0.6799		
410.73	-0.136	259.2	-0.6799		
410.77	-0.137	259.2	-0.6861		
410.80	-0.137	259	-0.6915		
410.83	-0.139	258.8	-0.6959		
410.87	-0.141	258.6	-0.7012		
410.90	-0.143	258.5	-0.7066		
410.93	-0.144	258.3	-0.711		
410.97	-0.147	258.1	-0.711		
411.00	-0.148	258.1	-0.7172		
411.03	-0.148	257.9	-0.7217		
411.07	-0.149	257.7	-0.727		
411.10	-0.152	257.5	-0.7323		
411.13	-0.153	257.4	-0.7376		
411.17	-0.154	257.2	-0.743		
411.20	-0.157	257	-0.743		
411.23	-0.158	257	-0.7492		
411.27	-0.158	256.9	-0.7527		
411.32	-0.16	256.5	-0.7572		
411.35	-0.162	256.5	-0.7616		
411.37	-0.162	256.4	-0.766		
411.40	-0.163	256.2	-0.7705		
411.43	-0.166	256	-0.7758		
411.47	-0.167	255.8	-0.7802		
411.50	-0.168	255.7	-0.7847		
411.53	-0.17	255.5	-0.7847		
411.57	-0.171	255.5	-0.79		
411.60	-0.171	255.3	-0.7936		
411.63	-0.173	255.1	-0.798		
411.67	-0.175	255	-0.8024		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
411.70	-0.175	254.8	-0.806		
411.73	-0.177	254.6	-0.8104		
411.77	-0.179	254.5	-0.8104		
411.80	-0.179	254.5	-0.8149		
411.83	-0.179	254.3	-0.8184		
411.87	-0.18	254.1	-0.8228		
411.90	-0.183	254	-0.8273		
411.93	-0.183	253.8	-0.8308		
411.97	-0.184	253.6	-0.8344		
412.00	-0.186	253.4	-0.8344		
412.03	-0.187	253.4	-0.8388		
412.07	-0.187	253.3	-0.8424		
412.10	-0.188	253.1	-0.8459		
412.13	-0.19	252.9	-0.8504		
412.17	-0.191	252.8	-0.853		
412.20	-0.191	252.6	-0.8566		
412.23	-0.193	252.5	-0.8566		
412.27	-0.195	252.5	-0.8601		
412.30	-0.195	252.3	-0.8628		
412.33	-0.195	252.2	-0.8654		
412.37	-0.196	252	-0.869		
412.40	-0.197	251.9	-0.8717		
412.43	-0.198	251.7	-0.8752		
412.47	-0.199	251.6	-0.8752		
412.50	-0.2	251.6	-0.8788		
412.53	-0.2	251.4	-0.8823		
412.57	-0.201	251.3	-0.885		
412.60	-0.203	251.1	-0.8885		
412.63	-0.204	251	-0.8912		
412.67	-0.203	250.9	-0.893		
412.70	-0.205	250.7	-0.893		
412.75	-0.205	250.6	-0.8992		
412.78	-0.206	250.5	-0.9018		
412.80	-0.207	250.3	-0.9018		
412.83	-0.208	250.3	-0.9045		
412.87	-0.208	250.2	-0.9063		
412.90	-0.208	250.1	-0.9089		
412.93	-0.209	250	-0.9107		
412.97	-0.209	249.9	-0.9134		
413.00	-0.21	249.7	-0.9152		
413.03	-0.211	249.6	-0.9152		
413.07	-0.212	249.6	-0.9178		
413.10	-0.212	249.5	-0.9196		
413.13	-0.212	249.3	-0.9223		
413.17	-0.213	249.2	-0.924		
413.20	-0.213	249.1	-0.9258		
413.23	-0.214	249	-0.9285		
413.27	-0.215	248.9	-0.9285		
413.30	-0.215	248.9	-0.9302		
413.33	-0.215	248.8	-0.932		
413.37	-0.215	248.7	-0.9329		
413.40	-0.216	248.6	-0.9347		
413.43	-0.217	248.5	-0.9365		
413.47	-0.216	248.4	-0.9382		
413.50	-0.217	248.3	-0.9382		
413.53	-0.218	248.3	-0.94		
413.57	-0.218	248.2	-0.9409		
413.60	-0.217	248.2	-0.9427		
413.63	-0.217	248.1	-0.9436		
413.67	-0.218	248	-0.9453		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
413.70	-0.218	247.9	-0.9462		
413.73	-0.219	247.8	-0.9462		
413.77	-0.219	247.8	-0.948		
413.80	-0.219	247.7	-0.9498		
413.83	-0.219	247.7	-0.9498		
413.87	-0.219	247.6	-0.9507		
413.90	-0.219	247.5	-0.9516		
413.93	-0.219	247.4	-0.9533		
413.97	-0.219	247.4	-0.9533		
414.00	-0.219	247.4	-0.9542		
414.03	-0.219	247.3	-0.9551		
414.07	-0.219	247.3	-0.9551		
414.10	-0.219	247.2	-0.956		
414.13	-0.219	247.1	-0.9569		
414.17	-0.219	247.1	-0.9578		
414.22	-0.22	247	-0.9587		
414.25	-0.219	246.9	-0.9595		
414.27	-0.219	246.9	-0.9595		
414.30	-0.219	246.8	-0.9595		
414.33	-0.219	246.8	-0.9604		
414.37	-0.219	246.8	-0.9613		
414.40	-0.219	246.7	-0.9613		
414.43	-0.219	246.7	-0.9622		
414.47	-0.218	246.7	-0.9622		
414.50	-0.218	246.6	-0.9622		
414.53	-0.222	246.4	-0.9622		
414.57	-0.217	246.4	-0.9658		
414.60	-0.217	246.5	-0.964		
414.63	-0.216	246.5	-0.9631		
414.67	-0.215	246.5	-0.9631		
414.70	-0.215	246.5	-0.9631		
414.73	-0.215	246.5	-0.9631		
414.77	-0.215	246.4	-0.9631		
414.80	-0.215	246.4	-0.964		
414.83	-0.215	246.4	-0.964		
414.87	-0.215	246.4	-0.964		
414.90	-0.214	246.4	-0.964		
414.93	-0.213	246.4	-0.964		
414.97	-0.213	246.3	-0.964		
415.00	-0.212	246.3	-0.964		
415.03	-0.212	246.3	-0.9631		
415.07	-0.212	246.3	-0.9631		
415.10	-0.211	246.3	-0.9631		
415.13	-0.211	246.3	-0.9631		
415.17	-0.21	246.3	-0.9631		
415.20	-0.209	246.3	-0.9622		
415.23	-0.208	246.3	-0.9622		
415.27	-0.207	246.3	-0.9622		
415.30	-0.207	246.3	-0.9622		
415.33	-0.207	246.3	-0.9622		
415.37	-0.206	246.3	-0.9613		
415.40	-0.205	246.3	-0.9604		
415.43	-0.205	246.3	-0.9604		
415.47	-0.204	246.4	-0.9604		
415.50	-0.202	246.4	-0.9604		
415.53	-0.202	246.4	-0.9595		
415.57	-0.202	246.4	-0.9587		
415.60	-0.201	246.4	-0.9587		
415.65	-0.2	246.4	-0.9578		
415.68	-0.2	246.4	-0.9578		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
415.70	-0.198	246.5	-0.9569		
415.73	-0.197	246.5	-0.9569		
415.77	-0.197	246.5	-0.956		
415.80	-0.195	246.6	-0.956		
415.83	-0.195	246.6	-0.9551		
415.87	-0.195	246.6	-0.9551		
415.90	-0.193	246.6	-0.9542		
415.93	-0.192	246.6	-0.9533		
415.97	-0.191	246.7	-0.9533		
416.00	-0.19	246.7	-0.9524		
416.03	-0.188	246.7	-0.9524		
416.07	-0.187	246.7	-0.9516		
416.10	-0.187	246.8	-0.9507		
416.13	-0.187	246.8	-0.9498		
416.17	-0.185	246.9	-0.9498		
416.20	-0.184	246.9	-0.9489		
416.23	-0.182	247	-0.9471		
416.27	-0.181	247	-0.9471		
416.30	-0.18	247	-0.9471		
416.33	-0.18	247	-0.9462		
416.37	-0.179	247.1	-0.9444		
416.40	-0.177	247.2	-0.9436		
416.43	-0.175	247.2	-0.9427		
416.47	-0.175	247.3	-0.9418		
416.50	-0.173	247.3	-0.9418		
416.53	-0.171	247.3	-0.9409		
416.57	-0.171	247.4	-0.94		
416.60	-0.17	247.5	-0.9391		
416.63	-0.168	247.5	-0.9373		
416.67	-0.167	247.6	-0.9365		
416.70	-0.165	247.7	-0.9356		
416.73	-0.164	247.7	-0.9356		
416.77	-0.162	247.7	-0.9338		
416.80	-0.162	247.8	-0.9329		
416.83	-0.162	247.9	-0.932		
416.87	-0.159	248	-0.9302		
416.90	-0.157	248	-0.9294		
416.93	-0.157	248.1	-0.9285		
416.97	-0.154	248.2	-0.9285		
417.00	-0.153	248.2	-0.9267		
417.03	-0.153	248.3	-0.9249		
417.07	-0.151	248.4	-0.9231		
417.12	-0.148	248.5	-0.9223		
417.15	-0.148	248.5	-0.9214		
417.17	-0.147	248.6	-0.9196		
417.20	-0.144	248.7	-0.9178		
417.23	-0.143	248.8	-0.9169		
417.27	-0.142	248.9	-0.9152		
417.30	-0.138	249	-0.9152		
417.33	-0.138	249	-0.9134		
417.37	-0.138	249	-0.9125		
417.40	-0.136	249.1	-0.9107		
417.43	-0.133	249.2	-0.9089		
417.47	-0.132	249.3	-0.9072		
417.50	-0.13	249.4	-0.9054		
417.53	-0.128	249.5	-0.9054		
417.57	-0.127	249.5	-0.9036		
417.60	-0.127	249.7	-0.9018		
417.63	-0.125	249.8	-0.8992		
417.67	-0.122	249.9	-0.8974		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
417.70	-0.121	250	-0.8965		
417.73	-0.119	250.1	-0.893		
417.77	-0.116	250.3	-0.893		
417.80	-0.115	250.3	-0.8912		
417.83	-0.115	250.3	-0.8894		
417.87	-0.113	250.5	-0.8876		
417.90	-0.11	250.6	-0.8859		
417.93	-0.109	250.7	-0.8841		
417.97	-0.106	250.8	-0.8805		
418.00	-0.103	251	-0.8805		
418.03	-0.103	251	-0.8788		
418.07	-0.103	251.1	-0.877		
418.10	-0.101	251.2	-0.8743		
418.13	-0.098	251.3	-0.8717		
418.17	-0.096	251.5	-0.8699		
418.20	-0.095	251.6	-0.8672		
418.23	-0.092	251.7	-0.8672		
418.27	-0.09	251.7	-0.8654		
418.30	-0.09	251.8	-0.8628		
418.33	-0.088	252	-0.8601		
418.37	-0.085	252.1	-0.8583		
418.40	-0.084	252.2	-0.8566		
418.43	-0.082	252.4	-0.8539		
418.47	-0.079	252.5	-0.8539		
418.50	-0.077	252.5	-0.8512		
418.53	-0.077	252.7	-0.8486		
418.58	-0.073	252.9	-0.8459		
418.62	-0.071	252.9	-0.8441		
418.63	-0.071	253.1	-0.8415		
418.67	-0.07	253.2	-0.8397		
418.70	-0.067	253.4	-0.8362		
418.73	-0.065	253.5	-0.8335		
418.77	-0.063	253.6	-0.8299		
418.80	-0.06	253.8	-0.8299		
418.83	-0.057	253.8	-0.8273		
418.87	-0.057	254	-0.8246		
418.90	-0.056	254.1	-0.822		
418.93	-0.053	254.3	-0.8184		
418.97	-0.051	254.4	-0.8157		
419.00	-0.049	254.6	-0.8131		
419.03	-0.046	254.7	-0.8131		
419.07	-0.044	254.7	-0.8095		
419.10	-0.044	254.9	-0.8069		
419.13	-0.042	255	-0.8033		
419.17	-0.039	255.2	-0.7998		
419.20	-0.037	255.3	-0.7971		
419.23	-0.036	255.5	-0.7936		
419.27	-0.032	255.7	-0.7936		
419.30	-0.03	255.7	-0.7891		
419.33	-0.03	255.8	-0.7864		
419.37	-0.027	256	-0.782		
419.40	-0.026	256.1	-0.7793		
419.43	-0.023	256.3	-0.7758		
419.47	-0.022	256.4	-0.7722		
419.50	-0.018	256.6	-0.7722		
419.53	-0.016	256.6	-0.7687		
419.57	-0.016	256.8	-0.7651		
419.60	-0.015	256.9	-0.7616		
419.63	-0.011	257.1	-0.758		
419.67	-0.009	257.3	-0.7545		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
419.70	-0.007	257.4	-0.7501		
419.73	-0.004	257.6	-0.7501		
419.77	-0.002	257.6	-0.7447		
419.80	-0.002	257.7	-0.7421		
419.83	-0.001	257.9	-0.7376		
419.87	0.003	258.1	-0.7332		
419.90	0.005	258.3	-0.7296		
419.93	0.007	258.4	-0.7252		
419.97	0.011	258.6	-0.7252		
420.02	0.011	258.7	-0.7181		
420.05	0.013	258.9	-0.7137		
420.07	0.017	259.1	-0.7137		
420.10	0.018	259.1	-0.7092		
420.13	0.018	259.2	-0.7066		
420.17	0.02	259.4	-0.7021		
420.20	0.024	259.6	-0.6977		
420.23	0.025	259.7	-0.6941		
420.27	0.027	259.9	-0.6888		
420.30	0.03	260.1	-0.6888		
420.33	0.032	260.1	-0.6844		
420.37	0.032	260.3	-0.6808		
420.40	0.034	260.4	-0.6755		
420.43	0.038	260.6	-0.6711		
420.47	0.04	260.8	-0.6666		
420.50	0.04	260.9	-0.6631		
420.53	0.044	261.1	-0.6631		
420.57	0.046	261.1	-0.6577		
420.60	0.046	261.3	-0.6533		
420.63	0.049	261.5	-0.648		
420.67	0.051	261.6	-0.6435		
420.70	0.053	261.8	-0.6391		
420.73	0.055	262	-0.6338		
420.77	0.058	262.2	-0.6338		
420.80	0.061	262.2	-0.6293		
420.83	0.061	262.4	-0.6249		
420.87	0.062	262.6	-0.6196		
420.90	0.066	262.8	-0.6142		
420.93	0.067	262.9	-0.6107		
420.97	0.069	263.1	-0.6045		
421.00	0.072	263.3	-0.6045		
421.03	0.074	263.3	-0.5992		
421.07	0.074	263.4	-0.5947		
421.10	0.076	263.6	-0.5894		
421.13	0.079	263.8	-0.5841		
421.17	0.08	263.9	-0.5805		
421.20	0.083	264.1	-0.5752		
421.23	0.086	264.3	-0.5752		
421.27	0.087	264.3	-0.569		
421.30	0.087	264.4	-0.5645		
421.33	0.089	264.6	-0.5592		
421.37	0.093	264.8	-0.5521		
421.40	0.093	264.9	-0.5486		
421.43	0.095	265.1	-0.5432		
421.48	0.098	265.3	-0.5388		
421.52	0.099	265.4	-0.5352		
421.53	0.102	265.6	-0.5281		
421.57	0.103	265.8	-0.5281		
421.60	0.106	265.8	-0.5246		
421.63	0.106	265.9	-0.5184		
421.67	0.107	266.1	-0.5139		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
421.70	0.111	266.2	-0.5077			
421.73	0.115	266.5	-0.5006			
421.77	0.114	266.6	-0.4971			
421.80	0.114	266.7	-0.4971			
421.83	0.118	266.7	-0.4944			
421.87	0.118	266.9	-0.4882			
421.90	0.12	267	-0.4838			
421.93	0.123	267.2	-0.4776			
421.97	0.125	267.4	-0.4722			
422.00	0.126	267.5	-0.4669			
422.03	0.129	267.7	-0.4669			
422.07	0.131	267.7	-0.4616			
422.10	0.131	267.8	-0.4571			
422.13	0.133	268	-0.4509			
422.17	0.135	268.2	-0.4456			
422.20	0.136	268.3	-0.4412			
422.23	0.139	268.5	-0.4358			
422.27	0.14	268.6	-0.4358			
422.30	0.143	268.6	-0.4305			
422.33	0.143	268.8	-0.4252			
422.37	0.144	268.9	-0.4207			
422.40	0.146	269.1	-0.4154			
422.43	0.148	269.2	-0.411			
422.47	0.149	269.4	-0.4057			
422.50	0.152	269.5	-0.4057			
422.53	0.154	269.5	-0.4012			
422.57	0.154	269.7	-0.3959			
422.60	0.155	269.8	-0.3914			
422.63	0.158	270	-0.387			
422.67	0.162	270.2	-0.3808			
422.70	0.158	270.2	-0.3799			
422.73	0.161	270.4	-0.3799			
422.77	0.164	270.4	-0.3746			
422.80	0.164	270.6	-0.3693			
422.83	0.165	270.7	-0.3648			
422.87	0.168	270.9	-0.3595			
422.92	0.17	271	-0.3551			
422.95	0.17	271.2	-0.3515			
422.97	0.171	271.3	-0.3471			
423.00	0.174	271.4	-0.3426			
423.03	0.174	271.6	-0.3391			
423.07	0.177	271.7	-0.3391			
423.10	0.178	271.7	-0.3338			
423.13	0.178	271.8	-0.3302			
423.17	0.18	272	-0.3258			
423.20	0.181	272.1	-0.3222			
423.23	0.183	272.2	-0.3178			
423.27	0.184	272.4	-0.3133			
423.30	0.186	272.5	-0.3133			
423.33	0.187	272.5	-0.3089			
423.37	0.187	272.6	-0.3053			
423.40	0.189	272.8	-0.3009			
423.43	0.19	272.9	-0.2974			
423.47	0.191	273	-0.2938			
423.50	0.192	273.1	-0.2894			
423.53	0.194	273.3	-0.2894			
423.57	0.195	273.3	-0.2849			
423.60	0.195	273.4	-0.2805			
423.63	0.197	273.5	-0.2769			
423.67	0.198	273.6	-0.2734			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
423.70	0.2	273.8	-0.2698			
423.73	0.2	273.9	-0.2672			
423.77	0.202	274	-0.2672			
423.80	0.203	274	-0.2627			
423.83	0.203	274.1	-0.2601			
423.87	0.203	274.2	-0.2574			
423.90	0.205	274.3	-0.2539			
423.93	0.206	274.4	-0.2512			
423.97	0.207	274.6	-0.2477			
424.00	0.209	274.7	-0.2477			
424.03	0.21	274.7	-0.2441			
424.07	0.21	274.8	-0.2414			
424.10	0.21	274.9	-0.2388			
424.13	0.212	275	-0.2352			
424.17	0.213	275.1	-0.2334			
424.20	0.214	275.2	-0.2299			
424.23	0.215	275.3	-0.2299			
424.27	0.216	275.3	-0.2281			
424.30	0.216	275.4	-0.2255			
424.33	0.216	275.5	-0.2228			
424.38	0.218	275.6	-0.2201			
424.42	0.218	275.7	-0.2175			
424.43	0.219	275.8	-0.2157			
424.47	0.219	275.9	-0.2139			
424.50	0.221	276	-0.2113			
424.53	0.221	276.1	-0.2086			
424.57	0.222	276.2	-0.2086			
424.60	0.223	276.2	-0.2068			
424.63	0.223	276.3	-0.205			
424.67	0.223	276.4	-0.2015			
424.70	0.225	276.5	-0.1997			
424.73	0.225	276.5	-0.1979			
424.77	0.225	276.6	-0.1962			
424.80	0.226	276.7	-0.1962			
424.83	0.226	276.7	-0.1944			
424.87	0.226	276.8	-0.1926			
424.90	0.227	276.9	-0.1908			
424.93	0.228	277	-0.1882			
424.97	0.229	277	-0.1873			
425.00	0.228	277.1	-0.1864			
425.03	0.229	277.2	-0.1864			
425.07	0.23	277.2	-0.1846			
425.10	0.23	277.3	-0.1829			
425.13	0.231	277.3	-0.1811			
425.17	0.231	277.4	-0.1802			
425.20	0.231	277.5	-0.1784			
425.23	0.231	277.6	-0.1784			
425.27	0.232	277.6	-0.1784			
425.30	0.234	277.6	-0.1766			
425.33	0.234	277.7	-0.1749			
425.37	0.233	277.8	-0.174			
425.40	0.231	277.8	-0.174			
425.43	0.231	277.9	-0.1731			
425.47	0.232	277.9	-0.1722			
425.50	0.233	278	-0.1722			
425.53	0.233	278	-0.1704			
425.57	0.233	278.1	-0.1695			
425.60	0.233	278.1	-0.1687			
425.63	0.233	278.2	-0.1687			
425.67	0.233	278.2	-0.1678			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
425.70	0.235	278.3	-0.166			
425.73	0.234	278.4	-0.166			
425.77	0.232	278.4	-0.166			
425.80	0.232	278.4	-0.166			
425.85	0.233	278.5	-0.1651			
425.87	0.233	278.5	-0.1642			
425.90	0.233	278.6	-0.1642			
425.93	0.233	278.6	-0.1633			
425.97	0.233	278.7	-0.1633			
426.00	0.233	278.7	-0.1624			
426.03	0.232	278.7	-0.1624			
426.07	0.232	278.8	-0.1624			
426.10	0.232	278.8	-0.1624			
426.13	0.232	278.8	-0.1616			
426.17	0.233	278.9	-0.1607			
426.20	0.233	278.9	-0.1616			
426.23	0.23	278.9	-0.1616			
426.27	0.23	279	-0.1616			
426.30	0.23	279.1	-0.1616			
426.33	0.231	279.1	-0.1616			
426.37	0.231	279.1	-0.1598			
426.40	0.23	279.2	-0.1607			
426.43	0.229	279.2	-0.1607			
426.47	0.228	279.2	-0.1607			
426.50	0.228	279.2	-0.1607			
426.53	0.228	279.3	-0.1607			
426.57	0.229	279.3	-0.1607			
426.60	0.229	279.3	-0.1598			
426.63	0.228	279.3	-0.1607			
426.67	0.224	279.3	-0.1616			
426.70	0.224	279.3	-0.1616			
426.73	0.225	279.4	-0.1616			
426.77	0.225	279.4	-0.1616			
426.80	0.224	279.4	-0.1616			
426.83	0.224	279.4	-0.1616			
426.87	0.223	279.4	-0.1616			
426.90	0.224	279.5	-0.1616			
426.93	0.221	279.5	-0.1624			
426.97	0.22	279.5	-0.1633			
427.00	0.22	279.5	-0.1633			
427.03	0.22	279.5	-0.1633			
427.07	0.22	279.5	-0.1633			
427.10	0.218	279.5	-0.1633			
427.13	0.218	279.5	-0.1642			
427.17	0.217	279.5	-0.1642			
427.20	0.216	279.6	-0.1642			
427.23	0.215	279.6	-0.1642			
427.28	0.214	279.6	-0.1651			
427.32	0.214	279.6	-0.166			
427.33	0.213	279.6	-0.166			
427.37	0.211	279.6	-0.166			
427.40	0.211	279.6	-0.1669			
427.43	0.211	279.6	-0.1669			
427.47	0.209	279.6	-0.1678			
427.50	0.208	279.6	-0.1678			
427.53	0.209	279.6	-0.1678			
427.57	0.205	279.6	-0.1678			
427.60	0.204	279.6	-0.1695			
427.63	0.204	279.5	-0.1704			
427.67	0.204	279.6	-0.1704			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
427.70	0.203	279.6	-0.1704			
427.73	0.202	279.5	-0.1713			
427.77	0.202	279.6	-0.1713			
427.80	0.198	279.5	-0.1713			
427.83	0.197	279.5	-0.1731			
427.87	0.197	279.5	-0.174			
427.90	0.197	279.5	-0.174			
427.93	0.195	279.5	-0.1758			
427.97	0.193	279.5	-0.1758			
428.00	0.193	279.4	-0.1766			
428.03	0.191	279.4	-0.1766			
428.07	0.189	279.4	-0.1775			
428.10	0.189	279.4	-0.1784			
428.13	0.188	279.4	-0.1784			
428.17	0.187	279.4	-0.1784			
428.20	0.187	279.4	-0.1793			
428.23	0.183	279.3	-0.182			
428.27	0.181	279.3	-0.182			
428.30	0.18	279.3	-0.182			
428.33	0.18	279.2	-0.1829			
428.37	0.18	279.2	-0.1837			
428.40	0.177	279.2	-0.1855			
428.43	0.176	279.2	-0.1855			
428.47	0.175	279.1	-0.1864			
428.50	0.173	279.1	-0.1864			
428.53	0.173	279.1	-0.1873			
428.57	0.173	279.1	-0.1882			
428.60	0.168	278.9	-0.1908			
428.63	0.167	278.9	-0.1917			
428.67	0.166	278.9	-0.1926			
428.70	0.165	278.8	-0.1935			
428.75	0.163	278.8	-0.1944			
428.78	0.163	278.8	-0.1944			
428.80	0.163	278.7	-0.1971			
428.83	0.157	278.6	-0.1971			
428.87	0.156	278.6	-0.1988			
428.90	0.156	278.6	-0.1997			
428.93	0.155	278.6	-0.2006			
428.97	0.152	278.5	-0.2024			
429.00	0.151	278.5	-0.2033			
429.03	0.15	278.5	-0.2042			
429.07	0.147	278.4	-0.2042			
429.10	0.146	278.4	-0.2059			
429.13	0.146	278.3	-0.2077			
429.17	0.145	278.3	-0.2077			
429.20	0.144	278.3	-0.2095			
429.23	0.14	278.2	-0.2121			
429.27	0.136	278.1	-0.2148			
429.30	0.135	278	-0.2148			
429.33	0.135	278	-0.2157			
429.37	0.135	278	-0.2166			
429.40	0.134	278	-0.2175			
429.43	0.128	277.8	-0.221			
429.47	0.127	277.8	-0.2228			
429.50	0.126	277.7	-0.2237			
429.53	0.124	277.7	-0.2237			
429.57	0.122	277.7	-0.2263			
429.60	0.122	277.6	-0.2272			
429.63	0.121	277.5	-0.2281			
429.67	0.117	277.4	-0.2326			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
429.70	0.115	277.3	-0.2334			
429.73	0.114	277.3	-0.2352			
429.77	0.111	277.2	-0.2352			
429.80	0.11	277.2	-0.237			
429.83	0.11	277.1	-0.2388			
429.87	0.108	277.1	-0.2414			
429.90	0.106	277	-0.2432			
429.93	0.101	276.9	-0.2468			
429.97	0.102	276.8	-0.2468			
430.00	0.101	276.7	-0.2468			
430.03	0.096	276.7	-0.2494			
430.07	0.096	276.6	-0.253			
430.10	0.093	276.5	-0.2556			
430.13	0.091	276.4	-0.2574			
430.18	0.09	276.4	-0.2592			
430.22	0.09	276.3	-0.2601			
430.23	0.087	276.2	-0.2636			
430.27	0.083	276.1	-0.2654			
430.30	0.084	276	-0.2681			
430.33	0.081	275.9	-0.2681			
430.37	0.076	275.8	-0.2698			
430.40	0.076	275.8	-0.2743			
430.43	0.076	275.7	-0.2761			
430.47	0.073	275.6	-0.2787			
430.50	0.071	275.5	-0.2814			
430.53	0.069	275.4	-0.2832			
430.57	0.066	275.3	-0.2832			
430.60	0.064	275.2	-0.2867			
430.63	0.064	275.2	-0.2894			
430.67	0.062	275.1	-0.2929			
430.70	0.059	275	-0.2965			
430.73	0.056	274.9	-0.2991			
430.77	0.055	274.7	-0.3018			
430.80	0.052	274.6	-0.3018			
430.83	0.05	274.5	-0.3053			
430.87	0.05	274.5	-0.308			
430.90	0.048	274.4	-0.3107			
430.93	0.045	274.3	-0.3151			
430.97	0.043	274.1	-0.3178			
431.00	0.041	274	-0.3204			
431.03	0.037	273.9	-0.3204			
431.07	0.036	273.8	-0.324			
431.10	0.036	273.8	-0.3267			
431.13	0.034	273.7	-0.3311			
431.17	0.03	273.5	-0.3338			
431.20	0.028	273.4	-0.3373			
431.23	0.027	273.3	-0.34			
431.27	0.024	273.1	-0.34			
431.30	0.022	273.1	-0.3435			
431.33	0.022	273	-0.3471			
431.37	0.02	272.9	-0.3506			
431.40	0.016	272.7	-0.3551			
431.43	0.014	272.6	-0.3586			
431.47	0.012	272.5	-0.3622			
431.50	0.01	272.3	-0.3622			
431.53	0.008	272.2	-0.3657			
431.57	0.008	272.2	-0.3693			
431.60	0.005	272.1	-0.3737			
431.65	0.001	271.8	-0.3781			
431.68	0.001	271.8	-0.3808			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
431.70	0	271.7	-0.3843		
431.73	-0.004	271.5	-0.3888		
431.77	-0.007	271.4	-0.3932		
431.80	-0.008	271.2	-0.3959		
431.83	-0.01	271.1	-0.3959		
431.87	-0.014	270.9	-0.4003		
431.90	-0.014	270.9	-0.4039		
431.93	-0.014	270.8	-0.4065		
431.97	-0.017	270.6	-0.4119		
432.00	-0.02	270.5	-0.4163		
432.03	-0.022	270.3	-0.4199		
432.07	-0.026	270.1	-0.4199		
432.10	-0.027	270	-0.4252		
432.13	-0.027	270	-0.4287		
432.17	-0.029	269.8	-0.4349		
432.20	-0.032	269.6	-0.4385		
432.23	-0.035	269.5	-0.4438		
432.27	-0.036	269.3	-0.4474		
432.30	-0.039	269.2	-0.4474		
432.33	-0.041	269	-0.4527		
432.37	-0.041	269	-0.4571		
432.40	-0.043	268.8	-0.4625		
432.43	-0.046	268.7	-0.4669		
432.47	-0.048	268.5	-0.4713		
432.50	-0.05	268.4	-0.4758		
432.53	-0.053	268.2	-0.4758		
432.57	-0.055	268	-0.4811		
432.60	-0.055	268	-0.4864		
432.63	-0.056	267.9	-0.4909		
432.67	-0.06	267.6	-0.4962		
432.70	-0.062	267.5	-0.5015		
432.73	-0.063	267.3	-0.506		
432.77	-0.067	267.1	-0.506		
432.80	-0.069	267	-0.5122		
432.83	-0.069	267	-0.5175		
432.87	-0.069	266.8	-0.5228		
432.90	-0.074	266.6	-0.529		
432.93	-0.075	266.4	-0.5344		
432.97	-0.078	266.2	-0.5397		
433.00	-0.08	266.1	-0.5397		
433.03	-0.082	265.9	-0.545		
433.08	-0.083	265.8	-0.5548		
433.12	-0.085	265.6	-0.5548		
433.13	-0.087	265.4	-0.5592		
433.17	-0.087	265.4	-0.5637		
433.20	-0.089	265.3	-0.569		
433.23	-0.092	265.1	-0.5743		
433.27	-0.093	264.9	-0.5796		
433.30	-0.097	264.7	-0.5858		
433.33	-0.098	264.5	-0.5858		
433.37	-0.1	264.4	-0.5912		
433.40	-0.1	264.4	-0.5965		
433.43	-0.101	264.2	-0.6009		
433.47	-0.104	264	-0.6071		
433.50	-0.106	263.8	-0.6134		
433.53	-0.109	263.6	-0.6196		
433.57	-0.11	263.5	-0.6196		
433.60	-0.112	263.3	-0.624		
433.63	-0.112	263.3	-0.6293		
433.67	-0.114	263.1	-0.6347		



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
433.70	-0.117	262.9	-0.6409		
433.73	-0.119	262.7	-0.6462		
433.77	-0.12	262.5	-0.6506		
433.80	-0.122	262.3	-0.6506		
433.83	-0.124	262.1	-0.656		
433.87	-0.124	262.1	-0.6613		
433.90	-0.125	262	-0.6666		
433.93	-0.128	261.7	-0.6737		
433.97	-0.13	261.5	-0.679		
434.00	-0.132	261.3	-0.6835		
434.03	-0.134	261.1	-0.6835		
434.07	-0.136	261	-0.6897		
434.10	-0.136	261	-0.695		
434.13	-0.137	260.8	-0.6995		
434.17	-0.139	260.6	-0.7057		
434.20	-0.141	260.4	-0.711		
434.23	-0.143	260.3	-0.7163		
434.27	-0.145	260	-0.7163		
434.30	-0.146	259.9	-0.7225		
434.33	-0.146	259.9	-0.727		
434.37	-0.148	259.7	-0.7314		
434.40	-0.15	259.5	-0.7367		
434.43	-0.151	259.3	-0.7421		
434.47	-0.153	259.2	-0.7474		
434.50	-0.155	258.9	-0.7474		
434.55	-0.156	258.8	-0.7572		
434.58	-0.157	258.6	-0.7616		
434.60	-0.16	258.4	-0.7616		
434.63	-0.16	258.3	-0.7669		
434.67	-0.16	258.3	-0.7705		
434.70	-0.162	258.1	-0.7758		
434.73	-0.164	257.9	-0.7811		
434.77	-0.165	257.7	-0.7847		
434.80	-0.167	257.5	-0.7891		
434.83	-0.168	257.4	-0.7891		
434.87	-0.169	257.2	-0.7936		
434.90	-0.169	257.2	-0.798		
434.93	-0.171	257	-0.8033		
434.97	-0.173	256.9	-0.8069		
435.00	-0.175	256.7	-0.8113		
435.03	-0.175	256.5	-0.8157		
435.07	-0.177	256.4	-0.8157		
435.10	-0.179	256.2	-0.8193		
435.13	-0.179	256.2	-0.8237		
435.17	-0.179	256	-0.8282		
435.20	-0.181	255.8	-0.8326		
435.23	-0.183	255.7	-0.8362		
435.27	-0.183	255.5	-0.8406		
435.30	-0.185	255.3	-0.8406		
435.33	-0.186	255.2	-0.8441		
435.37	-0.186	255.2	-0.8486		
435.40	-0.187	255	-0.8521		
435.43	-0.189	254.8	-0.8566		
435.47	-0.19	254.7	-0.8601		
435.50	-0.191	254.5	-0.8619		
435.53	-0.192	254.4	-0.8619		
435.57	-0.194	254.2	-0.8654		
435.60	-0.194	254.2	-0.869		
435.63	-0.194	254.1	-0.8726		
435.67	-0.195	253.9	-0.8761		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
435.70	-0.197	253.7	-0.8788		
435.73	-0.196	253.6	-0.8814		
435.77	-0.198	253.4	-0.8814		
435.80	-0.2	253.3	-0.885		
435.83	-0.2	253.3	-0.8885		
435.87	-0.2	253.1	-0.8912		
435.90	-0.201	253	-0.8947		
435.93	-0.202	252.8	-0.8974		
435.97	-0.203	252.7	-0.9001		
436.02	-0.204	252.5	-0.9027		
436.05	-0.204	252.4	-0.9054		
436.07	-0.205	252.3	-0.9081		
436.10	-0.206	252.1	-0.9081		
436.13	-0.207	252	-0.9107		
436.17	-0.207	252	-0.9134		
436.20	-0.208	251.9	-0.9152		
436.23	-0.208	251.8	-0.9178		
436.27	-0.209	251.6	-0.9205		
436.30	-0.21	251.5	-0.9223		
436.33	-0.21	251.4	-0.9223		
436.37	-0.212	251.3	-0.9249		
436.40	-0.212	251.3	-0.9267		
436.43	-0.211	251.2	-0.9285		
436.47	-0.212	251.1	-0.9311		
436.50	-0.213	250.9	-0.9329		
436.53	-0.214	250.8	-0.9356		
436.57	-0.213	250.7	-0.9356		
436.60	-0.215	250.6	-0.9373		
436.63	-0.215	250.6	-0.9391		
436.67	-0.215	250.5	-0.9409		
436.70	-0.216	250.4	-0.9427		
436.73	-0.216	250.3	-0.9444		
436.77	-0.216	250.2	-0.9462		
436.80	-0.217	250.1	-0.9462		
436.83	-0.217	250	-0.948		
436.87	-0.217	250	-0.9489		
436.90	-0.217	249.9	-0.9507		
436.93	-0.218	249.8	-0.9524		
436.97	-0.218	249.7	-0.9533		
437.00	-0.218	249.6	-0.9551		
437.03	-0.219	249.5	-0.9551		
437.07	-0.218	249.4	-0.9569		
437.10	-0.218	249.4	-0.9569		
437.13	-0.219	249.3	-0.9587		
437.17	-0.219	249.2	-0.9595		
437.20	-0.219	249.2	-0.9604		
437.23	-0.22	249.1	-0.9613		
437.27	-0.219	249	-0.9613		
437.30	-0.219	249	-0.9631		
437.33	-0.219	249	-0.964		
437.37	-0.22	248.9	-0.9649		
437.40	-0.22	248.8	-0.9658		
437.45	-0.219	248.8	-0.9658		
437.48	-0.219	248.7	-0.9666		
437.50	-0.219	248.7	-0.9675		
437.53	-0.219	248.6	-0.9684		
437.57	-0.219	248.6	-0.9684		
437.60	-0.219	248.5	-0.9684		
437.63	-0.219	248.5	-0.9693		
437.67	-0.219	248.5	-0.9702		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
437.70	-0.219	248.4	-0.9702			
437.73	-0.219	248.4	-0.9711			
437.77	-0.219	248.3	-0.9711			
437.80	-0.218	248.3	-0.9711			
437.83	-0.218	248.2	-0.9711			
437.87	-0.218	248.2	-0.972			
437.90	-0.218	248.2	-0.972			
437.93	-0.217	248.2	-0.972			
437.97	-0.217	248.1	-0.972			
438.00	-0.217	248.1	-0.972			
438.03	-0.216	248.1	-0.9729			
438.07	-0.216	248.1	-0.9729			
438.10	-0.216	248	-0.9729			
438.13	-0.216	248	-0.9729			
438.17	-0.215	248	-0.9729			
438.20	-0.215	248	-0.9729			
438.23	-0.214	248	-0.9729			
438.27	-0.214	248	-0.9729			
438.30	-0.213	247.9	-0.9729			
438.33	-0.212	247.9	-0.9729			
438.37	-0.212	247.9	-0.972			
438.40	-0.212	247.9	-0.972			
438.43	-0.21	247.9	-0.972			
438.47	-0.21	247.9	-0.972			
438.50	-0.21	247.9	-0.972			
438.53	-0.209	247.9	-0.972			
438.57	-0.208	247.9	-0.9711			
438.60	-0.208	247.9	-0.9711			
438.63	-0.208	247.9	-0.9711			
438.67	-0.208	247.9	-0.9702			
438.70	-0.206	247.9	-0.9702			
438.73	-0.205	247.9	-0.9693			
438.77	-0.205	248	-0.9693			
438.80	-0.204	248	-0.9693			
438.83	-0.204	248	-0.9684			
438.87	-0.202	248	-0.9684			
438.92	-0.201	248	-0.9675			
438.95	-0.201	248	-0.9675			
438.97	-0.201	248	-0.9675			
439.00	-0.2	248	-0.9666			
439.03	-0.197	248.1	-0.9658			
439.07	-0.198	248.1	-0.9658			
439.10	-0.197	248.1	-0.9649			
439.13	-0.195	248.1	-0.9649			
439.17	-0.195	248.1	-0.964			
439.20	-0.195	248.2	-0.964			
439.23	-0.194	248.2	-0.9631			
439.27	-0.191	248.2	-0.9622			
439.30	-0.191	248.3	-0.9622			
439.33	-0.19	248.3	-0.9613			
439.37	-0.188	248.4	-0.9613			
439.40	-0.188	248.4	-0.9604			
439.43	-0.187	248.4	-0.9595			
439.47	-0.186	248.4	-0.9587			
439.50	-0.185	248.5	-0.9578			
439.53	-0.184	248.5	-0.9569			
439.57	-0.182	248.6	-0.956			
439.60	-0.18	248.6	-0.956			
439.63	-0.18	248.6	-0.9551			
439.67	-0.18	248.7	-0.9542			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450				
deviatore ciclico (kPa)	200				
frequenza (hz)	0.00071429				
439.70	-0.179	248.7	-0.9533		
439.73	-0.176	248.8	-0.9524		
439.77	-0.176	248.8	-0.9524		
439.80	-0.175	248.9	-0.9524		
439.83	-0.172	248.9	-0.9507		
439.87	-0.172	248.9	-0.9498		
439.90	-0.172	249	-0.948		
439.93	-0.169	249.1	-0.9471		
439.97	-0.168	249.2	-0.9462		
440.00	-0.167	249.2	-0.9453		
440.03	-0.164	249.3	-0.9444		
440.07	-0.164	249.3	-0.9444		
440.10	-0.164	249.3	-0.9436		
440.13	-0.162	249.4	-0.9418		
440.17	-0.16	249.5	-0.94		
440.20	-0.158	249.6	-0.9391		
440.23	-0.158	249.7	-0.9382		
440.27	-0.156	249.8	-0.9382		
440.30	-0.153	249.9	-0.9365		
440.35	-0.154	249.9	-0.9347		
440.38	-0.152	250	-0.9329		
440.40	-0.149	250.1	-0.9329		
440.43	-0.149	250.1	-0.9311		
440.47	-0.148	250.1	-0.9302		
440.50	-0.147	250.2	-0.9285		
440.53	-0.144	250.3	-0.9267		
440.57	-0.143	250.4	-0.9258		
440.60	-0.141	250.5	-0.924		
440.63	-0.139	250.6	-0.924		
440.67	-0.139	250.6	-0.9223		
440.70	-0.138	250.7	-0.9205		
440.73	-0.135	250.9	-0.9187		
440.77	-0.133	250.9	-0.9169		
440.80	-0.131	251	-0.9152		
440.83	-0.13	251.1	-0.9143		
440.87	-0.128	251.2	-0.9143		
440.90	-0.128	251.2	-0.9116		
440.93	-0.126	251.3	-0.9098		
440.97	-0.124	251.5	-0.9081		
441.00	-0.122	251.6	-0.9063		
441.03	-0.12	251.7	-0.9045		
441.07	-0.119	251.8	-0.9018		
441.10	-0.115	251.9	-0.9018		
441.13	-0.115	251.9	-0.9001		
441.17	-0.115	252	-0.8992		
441.20	-0.113	252.2	-0.8965		
441.23	-0.11	252.3	-0.8939		
441.27	-0.109	252.4	-0.8921		
441.30	-0.107	252.5	-0.8921		
441.33	-0.104	252.6	-0.8894		
441.37	-0.104	252.6	-0.8876		
441.40	-0.102	252.8	-0.885		
441.43	-0.1	252.9	-0.8832		
441.47	-0.098	253	-0.8805		
441.50	-0.096	253.1	-0.8779		
441.53	-0.094	253.3	-0.8779		
441.57	-0.091	253.5	-0.8761		
441.60	-0.091	253.5	-0.8734		
441.63	-0.089	253.6	-0.8708		
441.67	-0.088	253.7	-0.869		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
441.70	-0.085	253.9	-0.8663			
441.73	-0.084	254	-0.8637			
441.77	-0.081	254.2	-0.8637			
441.82	-0.078	254.3	-0.8601			
441.85	-0.078	254.4	-0.8583			
441.87	-0.076	254.5	-0.8557			
441.90	-0.072	254.7	-0.8557			
441.93	-0.072	254.7	-0.853			
441.97	-0.072	254.8	-0.8504			
442.00	-0.069	255	-0.8468			
442.03	-0.066	255.1	-0.845			
442.07	-0.068	255.2	-0.8433			
442.10	-0.063	255.4	-0.8388			
442.13	-0.058	255.6	-0.8388			
442.17	-0.058	255.6	-0.8344			
442.20	-0.057	255.7	-0.8326			
442.23	-0.056	255.8	-0.8291			
442.27	-0.053	256	-0.8264			
442.30	-0.051	256.1	-0.8228			
442.33	-0.049	256.3	-0.8202			
442.37	-0.046	256.5	-0.8202			
442.40	-0.046	256.5	-0.8166			
442.43	-0.044	256.6	-0.814			
442.47	-0.042	256.8	-0.8104			
442.50	-0.038	257	-0.8078			
442.53	-0.038	257.1	-0.8051			
442.57	-0.036	257.2	-0.8015			
442.60	-0.031	257.4	-0.8015			
442.63	-0.031	257.4	-0.7971			
442.67	-0.031	257.5	-0.7944			
442.70	-0.028	257.7	-0.79			
442.73	-0.025	257.9	-0.7864			
442.77	-0.024	258	-0.7838			
442.80	-0.02	258.2	-0.7802			
442.83	-0.018	258.4	-0.7802			
442.87	-0.018	258.4	-0.7767			
442.90	-0.017	258.5	-0.7731			
442.93	-0.013	258.7	-0.7687			
442.97	-0.011	258.9	-0.7651			
443.00	-0.009	259	-0.7616			
443.03	-0.006	259.2	-0.7572			
443.07	-0.004	259.4	-0.7572			
443.10	-0.004	259.4	-0.7536			
443.13	-0.002	259.5	-0.7492			
443.17	0.001	259.7	-0.7447			
443.20	0.003	259.9	-0.7412			
443.23	0.005	260.1	-0.7367			
443.28	0.007	260.2	-0.7332			
443.30	0.009	260.4	-0.7305			
443.33	0.01	260.5	-0.7261			
443.37	0.014	260.7	-0.7217			
443.40	0.016	260.9	-0.7217			
443.43	0.016	260.9	-0.7181			
443.47	0.018	261	-0.7146			
443.50	0.02	261.2	-0.7092			
443.53	0.024	261.4	-0.7048			
443.57	0.025	261.5	-0.7003			
443.60	0.028	261.8	-0.695			
443.63	0.031	262	-0.695			
443.67	0.031	262	-0.6906			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
443.70	0.032	262.1	-0.687			
443.73	0.035	262.3	-0.6817			
443.77	0.038	262.5	-0.6773			
443.80	0.039	262.7	-0.6728			
443.83	0.042	262.9	-0.6684			
443.87	0.045	263	-0.6684			
443.90	0.045	263	-0.664			
443.93	0.046	263.2	-0.6586			
443.97	0.048	263.4	-0.6542			
444.00	0.053	263.6	-0.6489			
444.03	0.053	263.7	-0.6453			
444.07	0.056	263.9	-0.64			
444.10	0.058	264.1	-0.64			
444.13	0.058	264.1	-0.6356			
444.17	0.06	264.2	-0.6311			
444.20	0.062	264.4	-0.6258			
444.23	0.066	264.6	-0.6205			
444.27	0.067	264.8	-0.616			
444.30	0.069	264.9	-0.6107			
444.33	0.073	265.1	-0.6107			
444.37	0.073	265.1	-0.6054			
444.40	0.073	265.3	-0.6018			
444.43	0.076	265.4	-0.5965			
444.47	0.079	265.6	-0.5912			
444.50	0.08	265.8	-0.5858			
444.53	0.083	266	-0.5796			
444.57	0.086	266.1	-0.5796			
444.60	0.087	266.1	-0.5743			
444.63	0.087	266.3	-0.5699			
444.67	0.089	266.5	-0.5654			
444.72	0.093	266.7	-0.5601			
444.75	0.093	266.8	-0.5557			
444.77	0.095	267	-0.5503			
444.80	0.099	267.2	-0.545			
444.83	0.099	267.3	-0.5415			
444.87	0.101	267.5	-0.5352			
444.90	0.105	267.7	-0.5352			
444.93	0.106	267.7	-0.529			
444.97	0.106	267.8	-0.5255			
445.00	0.108	268	-0.5202			
445.03	0.111	268.1	-0.5131			
445.07	0.112	268.3	-0.5086			
445.10	0.115	268.5	-0.5033			
445.13	0.117	268.6	-0.5033			
445.17	0.118	268.6	-0.498			
445.20	0.118	268.8	-0.4935			
445.23	0.121	269	-0.4873			
445.27	0.124	269.1	-0.4811			
445.30	0.124	269.3	-0.4776			
445.33	0.126	269.4	-0.4713			
445.37	0.129	269.6	-0.4713			
445.40	0.131	269.6	-0.466			
445.43	0.131	269.7	-0.4616			
445.47	0.133	269.9	-0.4562			
445.50	0.135	270.1	-0.45			
445.53	0.137	270.2	-0.4456			
445.57	0.138	270.4	-0.4412			
445.60	0.141	270.6	-0.4412			
445.63	0.141	270.6	-0.4358			
445.67	0.141	270.7	-0.4314			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
445.70	0.145	270.9	-0.4252			
445.73	0.147	271.1	-0.419			
445.77	0.147	271.2	-0.4154			
445.80	0.15	271.4	-0.4101			
445.83	0.152	271.5	-0.4101			
445.87	0.152	271.5	-0.4057			
445.90	0.153	271.7	-0.4003			
445.93	0.156	271.8	-0.3959			
445.97	0.157	272	-0.3906			
446.00	0.159	272.1	-0.3861			
446.03	0.161	272.3	-0.3808			
446.07	0.162	272.4	-0.3808			
446.10	0.162	272.4	-0.3764			
446.13	0.165	272.6	-0.371			
446.18	0.168	272.9	-0.3648			
446.22	0.168	272.9	-0.3613			
446.23	0.168	273	-0.3586			
446.27	0.169	273.1	-0.3551			
446.30	0.172	273.3	-0.3497			
446.33	0.173	273.4	-0.3462			
446.37	0.175	273.5	-0.3417			
446.40	0.177	273.7	-0.3417			
446.43	0.178	273.7	-0.3373			
446.47	0.178	273.8	-0.3338			
446.50	0.179	273.9	-0.3293			
446.53	0.181	274.1	-0.3249			
446.57	0.183	274.2	-0.3204			
446.60	0.184	274.3	-0.3169			
446.63	0.186	274.5	-0.3169			
446.67	0.187	274.5	-0.3124			
446.70	0.187	274.6	-0.3089			
446.73	0.188	274.7	-0.3045			
446.77	0.19	274.9	-0.3			
446.80	0.191	275	-0.2965			
446.83	0.192	275.1	-0.2929			
446.87	0.194	275.2	-0.2929			
446.90	0.196	275.2	-0.2885			
446.93	0.196	275.4	-0.2849			
446.97	0.196	275.5	-0.2814			
447.00	0.198	275.6	-0.2778			
447.03	0.199	275.7	-0.2743			
447.07	0.201	275.8	-0.2707			
447.10	0.202	276	-0.2707			
447.13	0.203	276	-0.2672			
447.17	0.203	276.1	-0.2645			
447.20	0.204	276.2	-0.261			
447.23	0.206	276.3	-0.2565			
447.27	0.206	276.4	-0.2539			
447.30	0.207	276.5	-0.2512			
447.33	0.208	276.6	-0.2512			
447.37	0.21	276.6	-0.2485			
447.40	0.21	276.8	-0.245			
447.43	0.211	276.9	-0.2423			
447.47	0.212	277	-0.2388			
447.50	0.213	277.1	-0.2361			
447.53	0.213	277.2	-0.2334			
447.57	0.215	277.3	-0.2334			
447.62	0.216	277.4	-0.2281			
447.65	0.216	277.5	-0.2263			
447.67	0.217	277.6	-0.2263			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
447.70	0.218	277.6	-0.2237			
447.73	0.218	277.7	-0.221			
447.77	0.218	277.8	-0.2192			
447.80	0.22	277.9	-0.2157			
447.83	0.222	278	-0.213			
447.87	0.221	278.1	-0.2121			
447.90	0.221	278.2	-0.2121			
447.93	0.223	278.2	-0.2104			
447.97	0.223	278.3	-0.2077			
448.00	0.223	278.3	-0.2059			
448.03	0.224	278.4	-0.2042			
448.07	0.225	278.5	-0.2015			
448.10	0.225	278.6	-0.1997			
448.13	0.226	278.7	-0.1997			
448.17	0.226	278.7	-0.1979			
448.20	0.226	278.8	-0.1962			
448.23	0.227	278.9	-0.1944			
448.27	0.228	278.9	-0.1926			
448.30	0.228	279.1	-0.1908			
448.33	0.228	279.2	-0.1891			
448.37	0.23	279.3	-0.1891			
448.40	0.23	279.3	-0.1873			
448.43	0.23	279.3	-0.1864			
448.47	0.23	279.4	-0.1846			
448.50	0.23	279.5	-0.1837			
448.53	0.231	279.5	-0.182			
448.57	0.231	279.6	-0.1811			
448.60	0.231	279.7	-0.1811			
448.63	0.231	279.7	-0.1802			
448.67	0.231	279.8	-0.1784			
448.70	0.232	279.8	-0.1784			
448.73	0.232	279.9	-0.1775			
448.77	0.233	280	-0.1758			
448.80	0.233	280	-0.1749			
448.83	0.233	280.1	-0.1749			
448.87	0.233	280.1	-0.174			
448.90	0.233	280.1	-0.1731			
448.93	0.233	280.2	-0.1731			
448.97	0.233	280.3	-0.1722			
449.00	0.233	280.3	-0.1713			
449.03	0.233	280.4	-0.1704			
449.08	0.233	280.4	-0.1695			
449.12	0.233	280.5	-0.1695			
449.13	0.233	280.5	-0.1687			
449.17	0.233	280.6	-0.1687			
449.20	0.233	280.6	-0.1678			
449.23	0.233	280.6	-0.1678			
449.27	0.233	280.7	-0.1669			
449.30	0.233	280.7	-0.1669			
449.33	0.233	280.8	-0.166			
449.37	0.233	280.8	-0.166			
449.40	0.232	280.9	-0.166			
449.43	0.232	280.9	-0.166			
449.47	0.232	280.9	-0.1651			
449.50	0.232	280.9	-0.1651			
449.53	0.232	281	-0.1651			
449.57	0.232	281	-0.1651			
449.60	0.231	281.1	-0.1651			
449.63	0.23	281.1	-0.1651			
449.67	0.23	281.1	-0.1651			



Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
449.70	0.23	281.1	-0.1642			
449.73	0.232	281.2	-0.1642			
449.77	0.229	281.2	-0.1642			
449.80	0.229	281.2	-0.1642			
449.83	0.229	281.3	-0.1642			
449.87	0.229	281.3	-0.1642			
449.90	0.228	281.3	-0.1642			
449.93	0.228	281.3	-0.1642			
449.97	0.227	281.3	-0.1642			
450.00	0.227	281.4	-0.1642			
450.03	0.226	281.4	-0.1642			
450.07	0.225	281.4	-0.1651			
450.10	0.225	281.4	-0.1651			
450.13	0.224	281.4	-0.1651			
450.17	0.224	281.4	-0.1651			
450.20	0.223	281.4	-0.1651			
450.23	0.222	281.5	-0.166			
450.27	0.222	281.5	-0.166			
450.30	0.221	281.5	-0.166			
450.33	0.22	281.5	-0.166			
450.37	0.219	281.5	-0.166			
450.40	0.219	281.5	-0.1669			
450.43	0.221	281.6	-0.1669			
450.47	0.216	281.5	-0.1678			
450.52	0.216	281.5	-0.1678			
450.55	0.216	281.6	-0.1678			
450.57	0.216	281.6	-0.1678			
450.60	0.215	281.6	-0.1687			
450.63	0.213	281.6	-0.1695			
450.67	0.212	281.6	-0.1695			
450.70	0.212	281.6	-0.1695			
450.73	0.212	281.6	-0.1695			
450.77	0.21	281.6	-0.1704			
450.80	0.211	281.6	-0.1704			
450.83	0.207	281.6	-0.1722			
450.87	0.207	281.6	-0.1722			
450.90	0.206	281.6	-0.1722			
450.93	0.205	281.6	-0.1722			
450.97	0.205	281.6	-0.1731			
451.00	0.204	281.6	-0.1731			
451.03	0.203	281.6	-0.174			
451.07	0.201	281.5	-0.1749			
451.10	0.201	281.5	-0.1758			
451.13	0.199	281.5	-0.1758			
451.17	0.197	281.5	-0.1758			
451.20	0.197	281.5	-0.1766			
451.23	0.197	281.5	-0.1775			
451.27	0.195	281.5	-0.1784			
451.30	0.194	281.5	-0.1784			
451.33	0.192	281.4	-0.1793			
451.37	0.19	281.4	-0.1793			
451.40	0.19	281.4	-0.1802			
451.43	0.19	281.4	-0.1802			
451.47	0.188	281.4	-0.1811			
451.50	0.187	281.3	-0.182			
451.53	0.185	281.3	-0.1829			
451.57	0.184	281.3	-0.1837			
451.60	0.182	281.3	-0.1837			
451.63	0.181	281.3	-0.1855			
451.67	0.181	281.3	-0.1855			

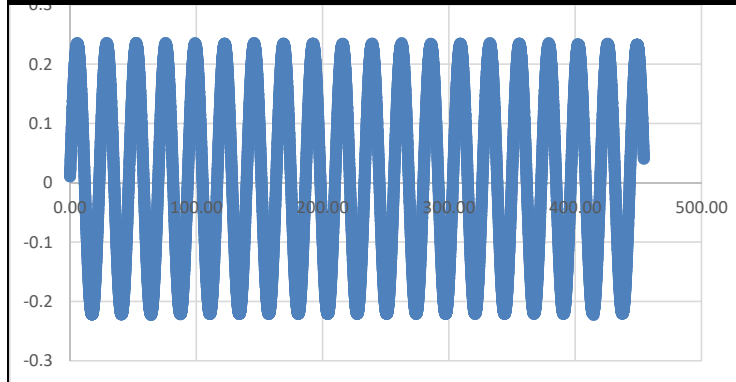
Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
451.70	0.179	281.2	-0.1864		
451.73	0.177	281.2	-0.1873		
451.77	0.176	281.2	-0.1891		
451.80	0.175	281.1	-0.1891		
451.83	0.172	281.1	-0.1891		
451.87	0.171	281.1	-0.1908		
451.90	0.171	281.1	-0.1917		
451.93	0.17	281	-0.1926		
451.98	0.167	281	-0.1944		
452.02	0.167	280.9	-0.1944		
452.03	0.166	280.9	-0.1962		
452.07	0.163	280.9	-0.1971		
452.10	0.162	280.8	-0.1979		
452.13	0.16	280.8	-0.1997		
452.17	0.158	280.7	-0.1997		
452.20	0.157	280.7	-0.2006		
452.23	0.157	280.7	-0.2024		
452.27	0.155	280.6	-0.2042		
452.30	0.152	280.6	-0.2059		
452.33	0.151	280.5	-0.2068		
452.37	0.149	280.5	-0.2077		
452.40	0.148	280.4	-0.2077		
452.43	0.145	280.4	-0.2095		
452.47	0.145	280.4	-0.2113		
452.50	0.145	280.3	-0.2121		
452.53	0.142	280.3	-0.2139		
452.57	0.14	280.2	-0.2157		
452.60	0.139	280.2	-0.2166		
452.63	0.136	280.1	-0.2166		
452.67	0.133	280.1	-0.2184		
452.70	0.133	280	-0.221		
452.73	0.133	280	-0.2219		
452.77	0.13	279.9	-0.2237		
452.80	0.129	279.8	-0.2246		
452.83	0.128	279.8	-0.2272		
452.87	0.122	279.6	-0.2272		
452.90	0.122	279.6	-0.2308		
452.93	0.122	279.6	-0.2317		
452.97	0.12	279.5	-0.2326		
453.00	0.118	279.5	-0.2352		
453.03	0.116	279.4	-0.237		
453.07	0.114	279.3	-0.2388		
453.10	0.11	279.2	-0.2388		
453.13	0.11	279.2	-0.2414		
453.17	0.11	279.2	-0.2423		
453.20	0.109	279.1	-0.245		
453.23	0.105	278.9	-0.2477		
453.27	0.101	278.8	-0.2494		
453.30	0.102	278.8	-0.2512		
453.33	0.099	278.7	-0.2512		
453.37	0.096	278.7	-0.2539		
453.40	0.096	278.6	-0.2556		
453.45	0.094	278.4	-0.2574		
453.48	0.09	278.4	-0.2592		
453.50	0.09	278.3	-0.2619		
453.53	0.09	278.3	-0.2636		
453.57	0.086	278.1	-0.2672		
453.60	0.084	278	-0.2708		

Titolo del grafico

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)	450			
deviatore ciclico (kPa)	200			
frequenza (hz)	0.00071429			



454.13	0.052	276.5	-0.3053		
454.17	0.05	276.5	-0.3089		
454.20	0.05	276.4	-0.3116		
454.23	0.048	276.3	-0.3142		
454.27	0.045	276.2	-0.3178		
454.30	0.043	276.1	-0.3204		
454.33	0.041	275.9	-0.324		
454.37	0.038	275.8	-0.324		
454.40	0.036	275.8	-0.3275		
454.43	0.036	275.7	-0.3311		
454.47	0.034	275.6	-0.3338		
454.50	0.031	275.4	-0.3373		
454.53	0.028	275.3	-0.3409		
454.57	0.027	275.2	-0.3435		
454.60	0.024	275	-0.3435		
454.63	0.022	275	-0.348		
454.67	0.022	274.9	-0.3515		
454.70	0.02	274.7	-0.3551		
454.73	0.016	274.6	-0.3595		
454.77	0.014	274.5	-0.3622		
454.80	0.013	274.4	-0.3657		
454.83	0.009	274.2	-0.3657		
454.88	0.008	274.1	-0.3728		
454.92	0.007	274	-0.3764		
454.93	0.003	273.8	-0.3764		
454.97	0.001	273.8	-0.3808		
455.00	0.001	273.7	-0.3835		
455.03	-0.001	273.5	-0.3879		
455.07	-0.004	273.4	-0.3923		
455.10	-0.006	273.3	-0.3959		
455.13	-0.007	273.1	-0.4003		
455.17	-0.011	272.9	-0.4003		
455.20	-0.014	272.9	-0.4048		
455.23	-0.014	272.8	-0.4083		
455.27	-0.015	272.6	-0.4119		
455.30	-0.018	272.5	-0.4172		
455.33	-0.021	272.3	-0.4216		
455.37	-0.021	272.2	-0.4243		
455.40	-0.025	272	-0.4243		
455.43	-0.027	272	-0.4287		
455.47	-0.027	271.9	-0.4332		
455.50	-0.029	271.7	-0.4376		
455.53	-0.033	271.5	-0.4438		
455.57	-0.034	271.4	-0.4474		
455.60	-0.036	271.2	-0.4518		
455.63	-0.04	271	-0.4518		
455.67	-0.041	271	-0.458		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
455.70	-0.041	270.9	-0.4625			
455.73	-0.042	270.7	-0.4669			
455.77	-0.047	270.5	-0.4722			
455.80	-0.048	270.3	-0.4767			
455.83	-0.05	270.2	-0.482			
455.87	-0.054	270	-0.482			
455.90	-0.055	270	-0.4873			
455.93	-0.055	269.8	-0.4909			
455.97	-0.057	269.7	-0.4962			
456.00	-0.06	269.5	-0.5024			
456.03	-0.062	269.3	-0.5068			
456.07	-0.063	269.1	-0.5113			
456.10	-0.066	269	-0.5113			
456.13	-0.069	269	-0.5166			
456.17	-0.069	268.8	-0.5237			
456.20	-0.07	268.6	-0.529			
456.23	-0.074	268.4	-0.5344			
456.27	-0.074	268.3	-0.5397			
456.30	-0.078	268	-0.5459			
456.35	-0.08	267.9	-0.5503			
456.38	-0.081	267.7	-0.5548			
456.40	-0.083	267.6	-0.5601			
456.43	-0.085	267.4	-0.5601			
456.47	-0.088	267.4	-0.5654			
456.50	-0.088	267.2	-0.5708			
456.53	-0.089	267	-0.5761			
456.57	-0.093	266.8	-0.5814			
456.60	-0.093	266.7	-0.5858			
456.63	-0.095	266.5	-0.5921			
456.67	-0.1	266.2	-0.5921			
456.70	-0.1	266.2	-0.5983			
456.73	-0.1	266.1	-0.6027			
456.77	-0.101	265.9	-0.6089			
456.80	-0.105	265.7	-0.6151			
456.83	-0.106	265.6	-0.6196			
456.87	-0.108	265.4	-0.6258			
456.90	-0.112	265.1	-0.6258			
456.93	-0.112	265.1	-0.632			
456.97	-0.112	265	-0.6356			
457.00	-0.114	264.8	-0.6418			
457.03	-0.118	264.6	-0.648			
457.07	-0.118	264.4	-0.6533			
457.10	-0.119	264.2	-0.6577			
457.13	-0.124	264	-0.6577			
457.17	-0.123	264	-0.6648			
457.20	-0.123	263.9	-0.6693			
457.23	-0.126	263.7	-0.6755			
457.27	-0.129	263.5	-0.6817			
457.30	-0.13	263.3	-0.687			
457.33	-0.131	263.1	-0.6915			
457.37	-0.134	262.9	-0.6915			
457.40	-0.136	262.9	-0.6968			
457.43	-0.136	262.7	-0.7021			
457.47	-0.137	262.5	-0.7083			
457.50	-0.139	262.3	-0.7137			
457.53	-0.142	262.1	-0.719			
457.57	-0.142	262	-0.7234			
457.60	-0.145	261.7	-0.7234			
457.63	-0.146	261.7	-0.7288			
457.67	-0.146	261.6	-0.7332			

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
457.70	-0.148	261.4	-0.7394		
457.73	-0.15	261.2	-0.7447		
457.78	-0.151	261	-0.7501		
457.82	-0.152	260.9	-0.7545		
457.83	-0.155	260.6	-0.7598		
457.87	-0.155	260.5	-0.7634		
457.90	-0.157	260.3	-0.7696		
457.93	-0.16	260.1	-0.7696		
457.97	-0.161	260.1	-0.7749		
458.00	-0.161	259.9	-0.7793		
458.03	-0.162	259.8	-0.7829		
458.07	-0.164	259.6	-0.7882		
458.10	-0.166	259.4	-0.7936		
458.13	-0.166	259.2	-0.7971		
458.17	-0.168	259	-0.7971		
458.20	-0.17	259	-0.8015		
458.23	-0.17	258.9	-0.8069		
458.27	-0.171	258.7	-0.8113		
458.30	-0.173	258.5	-0.8166		
458.33	-0.174	258.3	-0.8193		
458.37	-0.176	258.1	-0.8246		
458.40	-0.177	257.9	-0.8246		
458.43	-0.179	257.9	-0.8282		
458.47	-0.179	257.8	-0.8326		
458.50	-0.179	257.6	-0.837		
458.53	-0.181	257.4	-0.8415		
458.57	-0.182	257.3	-0.845		
458.60	-0.184	257.1	-0.8495		
458.63	-0.185	256.9	-0.8495		
458.67	-0.186	256.9	-0.853		
458.70	-0.186	256.8	-0.8566		
458.73	-0.188	256.6	-0.8601		
458.77	-0.189	256.4	-0.8646		
458.80	-0.191	256.3	-0.8681		
458.83	-0.19	256.1	-0.8708		
458.87	-0.192	256	-0.8708		
458.90	-0.193	256	-0.8752		
458.93	-0.193	255.8	-0.8779		
458.97	-0.194	255.6	-0.8814		
459.00	-0.196	255.5	-0.885		
459.03	-0.196	255.3	-0.8885		
459.07	-0.197	255.2	-0.8921		
459.10	-0.199	255	-0.8921		
459.13	-0.2	255	-0.8956		
459.17	-0.2	254.9	-0.8983		
459.20	-0.2	254.7	-0.901		
459.25	-0.202	254.6	-0.9036		
459.28	-0.202	254.5	-0.9063		
459.30	-0.202	254.3	-0.9089		
459.33	-0.204	254.2	-0.9116		
459.37	-0.205	254	-0.9143		
459.40	-0.205	253.9	-0.9169		
459.43	-0.206	253.8	-0.9169		
459.47	-0.207	253.8	-0.9196		
459.50	-0.207	253.6	-0.9223		
459.53	-0.208	253.5	-0.9249		
459.57	-0.208	253.4	-0.9276		
459.60	-0.209	253.2	-0.9294		
459.63	-0.21	253.1	-0.932		
459.67	-0.21	253	-0.932		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
459.70	-0.211	253	-0.9338		
459.73	-0.211	252.8	-0.9365		
459.77	-0.212	252.7	-0.9382		
459.80	-0.212	252.6	-0.9409		
459.83	-0.213	252.5	-0.9427		
459.87	-0.213	252.4	-0.9436		
459.90	-0.214	252.2	-0.9436		
459.93	-0.215	252.2	-0.9462		
459.97	-0.215	252.1	-0.948		
460.00	-0.215	252	-0.9498		
460.03	-0.216	251.9	-0.9516		
460.07	-0.216	251.8	-0.9533		
460.10	-0.216	251.7	-0.9551		
460.13	-0.216	251.6	-0.9551		
460.17	-0.217	251.6	-0.9569		
460.20	-0.217	251.5	-0.9578		
460.23	-0.217	251.4	-0.9595		
460.27	-0.218	251.3	-0.9613		
460.30	-0.218	251.2	-0.9622		
460.33	-0.218	251.1	-0.9631		
460.37	-0.218	251.1	-0.9631		
460.40	-0.219	251.1	-0.9649		
460.43	-0.219	251	-0.9658		
460.47	-0.219	250.9	-0.9675		
460.50	-0.219	250.8	-0.9684		
460.53	-0.22	250.7	-0.9693		
460.57	-0.219	250.7	-0.9702		
460.60	-0.22	250.6	-0.9702		
460.63	-0.219	250.6	-0.9711		
460.68	-0.219	250.5	-0.9729		
460.72	-0.22	250.4	-0.9729		
460.73	-0.22	250.4	-0.9746		
460.77	-0.22	250.3	-0.9755		
460.80	-0.22	250.3	-0.9764		
460.83	-0.219	250.2	-0.9773		
460.87	-0.219	250.2	-0.9773		
460.90	-0.219	250.1	-0.9782		
460.93	-0.219	250	-0.9782		
460.97	-0.219	250	-0.9782		
461.00	-0.219	250	-0.9791		
461.03	-0.219	250	-0.98		
461.07	-0.219	249.9	-0.98		
461.10	-0.218	249.9	-0.9808		
461.13	-0.218	249.8	-0.9808		
461.17	-0.218	249.8	-0.9808		
461.20	-0.218	249.8	-0.9808		
461.23	-0.218	249.7	-0.9817		
461.27	-0.218	249.7	-0.9817		
461.30	-0.217	249.7	-0.9817		
461.33	-0.216	249.6	-0.9817		
461.37	-0.216	249.6	-0.9817		
461.40	-0.216	249.6	-0.9817		
461.43	-0.215	249.6	-0.9817		
461.47	-0.215	249.5	-0.9817		
461.50	-0.215	249.5	-0.9817		
461.53	-0.215	249.5	-0.9817		
461.57	-0.214	249.5	-0.9817		
461.60	-0.213	249.5	-0.9817		
461.63	-0.213	249.5	-0.9817		
461.67	-0.213	249.5	-0.9817		

Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
461.70	-0.213	249.4	-0.9817		
461.73	-0.211	249.4	-0.9808		
461.77	-0.211	249.4	-0.9808		
461.80	-0.211	249.4	-0.9808		
461.83	-0.21	249.4	-0.9808		
461.87	-0.209	249.4	-0.9808		
461.90	-0.208	249.4	-0.9808		
461.93	-0.208	249.4	-0.98		
461.97	-0.208	249.4	-0.98		
462.00	-0.207	249.4	-0.9791		
462.03	-0.206	249.4	-0.9791		
462.07	-0.205	249.4	-0.9791		
462.10	-0.204	249.5	-0.9791		
462.15	-0.204	249.5	-0.9782		
462.18	-0.203	249.5	-0.9782		
462.20	-0.202	249.5	-0.9782		
462.23	-0.201	249.5	-0.9773		
462.27	-0.201	249.5	-0.9773		
462.30	-0.201	249.5	-0.9764		
462.33	-0.199	249.5	-0.9755		
462.37	-0.198	249.6	-0.9755		
462.40	-0.197	249.6	-0.9746		
462.43	-0.196	249.6	-0.9746		
462.47	-0.195	249.6	-0.9729		
462.50	-0.195	249.7	-0.9729		
462.53	-0.194	249.7	-0.972		
462.57	-0.193	249.7	-0.9711		
462.60	-0.192	249.8	-0.9711		
462.63	-0.191	249.8	-0.9702		
462.67	-0.189	249.9	-0.9702		
462.70	-0.189	249.9	-0.9693		
462.73	-0.189	249.9	-0.9684		
462.77	-0.187	249.9	-0.9675		
462.80	-0.186	250	-0.9666		
462.83	-0.185	250	-0.9666		
462.87	-0.184	250.1	-0.9658		
462.90	-0.18	250.2	-0.9658		
462.93	-0.182	250.2	-0.964		
462.97	-0.182	250.2	-0.964		
463.00	-0.181	250.2	-0.9631		
463.03	-0.178	250.3	-0.9622		
463.07	-0.177	250.3	-0.9604		
463.10	-0.176	250.4	-0.9604		
463.13	-0.174	250.5	-0.9604		
463.17	-0.172	250.5	-0.9587		
463.20	-0.172	250.5	-0.9578		
463.23	-0.172	250.6	-0.9569		
463.27	-0.169	250.7	-0.956		
463.30	-0.169	250.7	-0.9551		
463.33	-0.167	250.8	-0.9533		
463.37	-0.165	250.9	-0.9533		
463.40	-0.164	250.9	-0.9524		
463.43	-0.164	250.9	-0.9516		
463.47	-0.162	251	-0.9498		
463.50	-0.16	251.1	-0.9489		
463.53	-0.159	251.2	-0.9471		
463.57	-0.157	251.2	-0.9462		
463.62	-0.155	251.3	-0.9453		
463.65	-0.155	251.4	-0.9444		
463.67	-0.154	251.5	-0.9427		

Prova triassiale ciclica SNGR04-C4

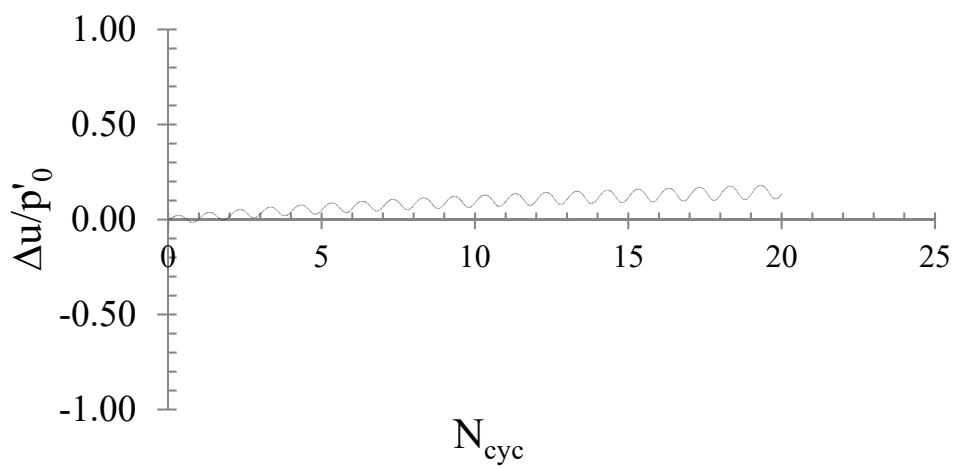
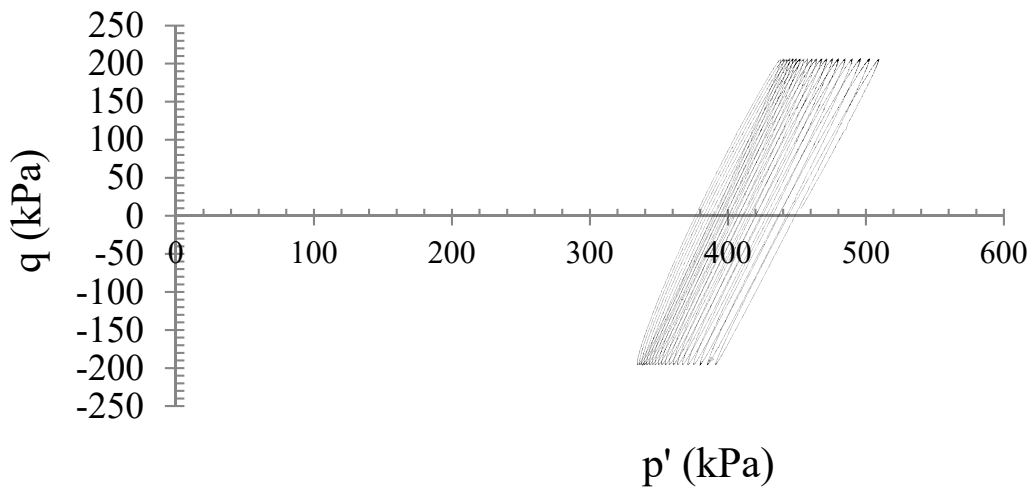
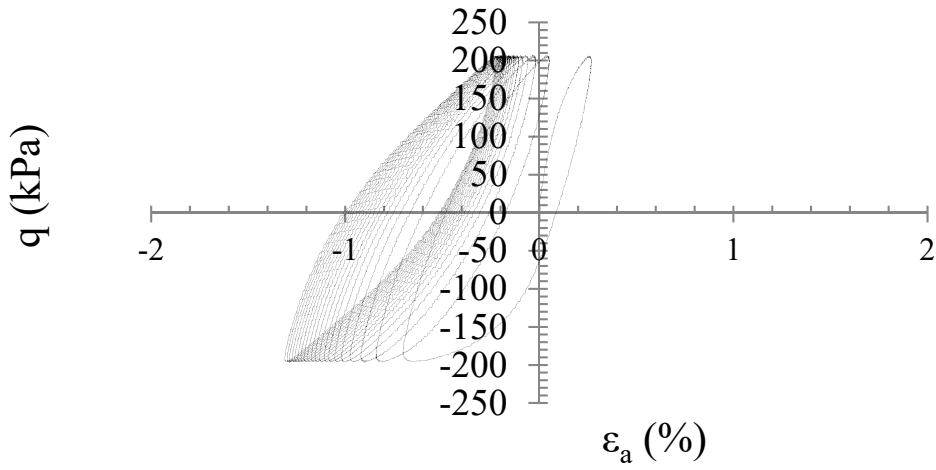
pressione di confinamento (kPa)		450			
deviatore ciclico (kPa)		200			
frequenza (hz)		0.00071429			
463.70	-0.151	251.6	-0.9427		
463.73	-0.15	251.6	-0.9409		
463.77	-0.15	251.6	-0.94		
463.80	-0.149	251.7	-0.9382		
463.83	-0.146	251.8	-0.9365		
463.87	-0.145	251.9	-0.9347		
463.90	-0.143	252	-0.9338		
463.93	-0.14	252.1	-0.9338		
463.97	-0.139	252.1	-0.9311		
464.00	-0.139	252.2	-0.9302		
464.03	-0.138	252.3	-0.9294		
464.07	-0.135	252.4	-0.9267		
464.10	-0.134	252.5	-0.9258		
464.13	-0.132	252.6	-0.924		
464.17	-0.129	252.7	-0.924		
464.20	-0.128	252.7	-0.9214		
464.23	-0.128	252.8	-0.9205		
464.27	-0.127	252.9	-0.9187		
464.30	-0.124	253	-0.916		
464.33	-0.123	253.1	-0.9152		
464.37	-0.12	253.3	-0.9125		
464.40	-0.118	253.4	-0.9125		
464.43	-0.116	253.4	-0.9107		
464.47	-0.116	253.5	-0.9089		
464.50	-0.115	253.6	-0.9072		
464.53	-0.113	253.7	-0.9045		
464.57	-0.111	253.9	-0.9027		
464.60	-0.108	254.1	-0.9001		
464.63	-0.106	254.2	-0.9001		
464.67	-0.104	254.2	-0.8974		
464.70	-0.104	254.3	-0.8956		
464.73	-0.103	254.4	-0.8939		
464.77	-0.099	254.6	-0.8912		
464.80	-0.098	254.7	-0.8894		
464.83	-0.096	254.8	-0.8868		
464.87	-0.093	255	-0.8868		
464.90	-0.091	255	-0.8841		
464.93	-0.091	255.1	-0.8814		
464.97	-0.09	255.2	-0.8797		
465.00	-0.087	255.4	-0.8761		
465.05	-0.085	255.5	-0.8743		
465.08	-0.085	255.6	-0.8726		
465.10	-0.081	255.8	-0.8699		
465.13	-0.08	255.9	-0.8681		
465.17	-0.078	256	-0.8654		
465.20	-0.076	256.1	-0.8654		
465.23	-0.073	256.1	-0.8628		
465.27	-0.073	256.3	-0.8601		
465.30	-0.072	256.4	-0.8583		
465.33	-0.068	256.6	-0.8548		
465.37	-0.066	256.7	-0.8521		
465.40	-0.065	256.8	-0.8504		
465.43	-0.062	257	-0.8504		
465.47	-0.06	257	-0.8468		
465.50	-0.06	257.2	-0.8441		
465.53	-0.058	257.3	-0.8415		
465.57	-0.055	257.5	-0.837		
465.60	-0.053	257.6	-0.8344		
465.63	-0.051	257.7	-0.8308		
465.67	-0.047	257.9	-0.8308		



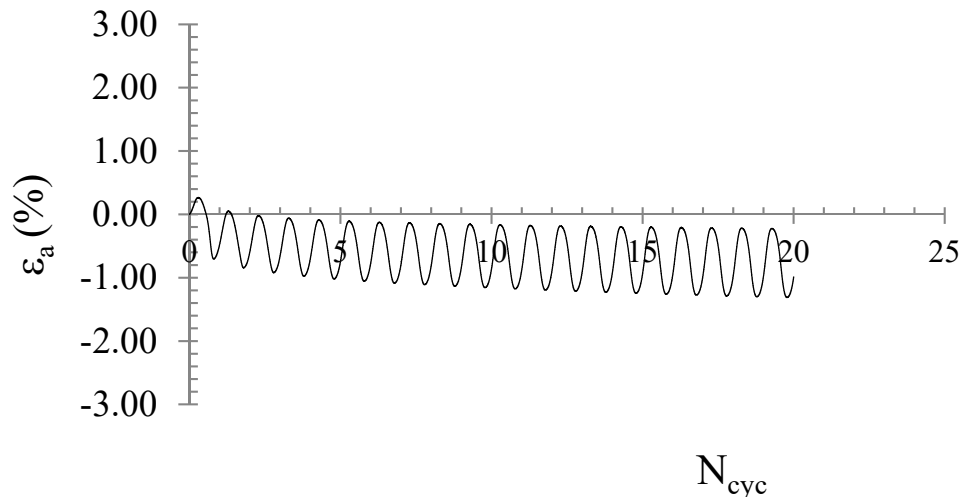
Prova triassiale ciclica SNGR04-C4

pressione di confinamento (kPa)		450				
deviatore ciclico (kPa)		200				
frequenza (hz)		0.00071429				
465.70	-0.047	257.9	-0.8282			
465.73	-0.047	258.1	-0.8255			
465.77	-0.044	258.2	-0.822			
465.80	-0.041	258.4	-0.8184			
465.83	-0.039	258.6	-0.8157			
465.87	-0.038	258.7	-0.8113			
465.90	-0.034	258.9	-0.8113			
465.93	-0.033	258.9	-0.8086			
465.97	-0.033	259	-0.806			
466.00	-0.03	259.2	-0.8015			
466.03	-0.027	259.4	-0.798			
466.07	-0.025	259.5	-0.7944			
466.10	-0.023	259.7	-0.7909			
466.13	-0.02	259.9	-0.7909			
466.17	-0.019	259.9	-0.7873			
466.20	-0.019	260	-0.7838			
466.23	-0.016	260.2	-0.7802			
466.27	-0.013	260.4	-0.7758			
466.30	-0.011	260.5	-0.7722			
466.33	-0.01	260.7	-0.7696			
466.37	-0.006	260.9	-0.7696			
466.40	-0.004	260.9	-0.7643			
466.43	-0.004	261.1	-0.7607			
466.47	-0.002	261.2	-0.7572			
466.52	0.002	261.4	-0.7527			
466.55	0.002	261.6	-0.7501			
466.57	0.003	261.7	-0.7456			
466.60	0.006	261.9	-0.7421			
466.63	0.006	262	-0.7403			
466.67	0.006	262.1	-0.7385			

# SNGR04-C4 prova TXC



# SNGR04-C4 prova TXC





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<u>Profondità</u>	24.40 ±25.00 m
<u>Data apertura</u>	24/01/20
<u>Operatore</u>	

### Prova di TAGLIO TORSIONALE

Dati iniziali								
D (mm)	H (mm)	V (cm <sup>3</sup> )	$\gamma$ (kN/m <sup>3</sup> )	w (%)	$\gamma_s$ (kN/m <sup>3</sup> )	e (/)	S <sub>r</sub> (%)	p' (kPa)
35.76	71.88	72.16	19.03	26.44	27.12	0.802	0.91	425

Dati fine consolidazione								
D (mm)	H (mm)	V (cm <sup>3</sup> )	$\gamma$ (kN/m <sup>3</sup> )	w (%)	$\gamma_d$ (kN/m <sup>3</sup> )	e (/)	S <sub>r</sub> (%)	p' (kPa)
36.27	72.24	74.60	18.33	28.65	14.6	0.863	0.92	425

TAGLIO TORSIONALE					
$\gamma$ (%)	G (MPa)	D (%)	f <sub>r</sub> (Hz)	G/G <sub>0</sub> (/)	Du/p'
1.83E-04	111	4.08	0.5	1.00	0.00
3.62E-04	111.16	3.42	0.5	1.00	0.00
7.27E-04	111.16	1.54	0.5	1.00	0.00
1.44E-03	112.18	2.01	0.5	1.00	0.00
2.87E-03	112.18	1.73	0.5	1.00	0.00
5.98E-03	111.16	1.95	0.5	1.00	0.00
1.26E-02	106.06	1.89	0.5	0.97	0.00
1.90E-02	104.02	2.15	0.5	0.95	0.00
3.29E-02	101.04	2.52	0.5	0.93	0.00
4.43E-02	97.55	2.83	0.5	0.89	0.00
4.37E-02	98.62	2.84	0.5	0.90	0.00
6.42E-02	93.07	3.97	0.5	0.85	0.00
6.42E-02	94.25	3.78	0.5	0.86	0.00
9.18E-02	87.39	4.94	0.5	0.80	0.00
1.23E-01	80.75	6.19	0.5	0.74	0.00
1.66E-01	71.33	7.49	0.5	0.65	0.00
2.03E-01	64.60	8.61	0.5	0.59	0.00
2.44E-01	59.16	9.89	0.5	0.54	0.01
3.05E-01	53.81	12.15	0.5	0.49	0.01
3.76E-01	46.59	14.6	0.5	0.43	0.01
4.31E-01	41.50	16.27	0.5	0.38	0.02
5.15E-01	35.45	20.59	0.5	0.32	0.02

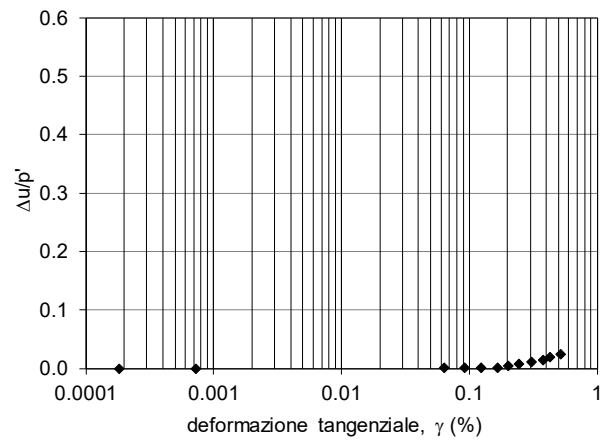
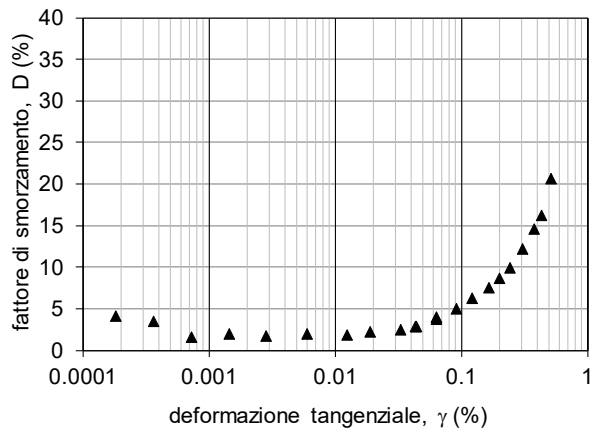
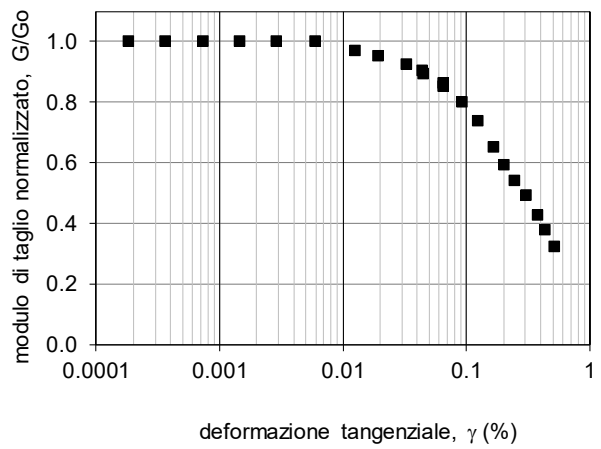
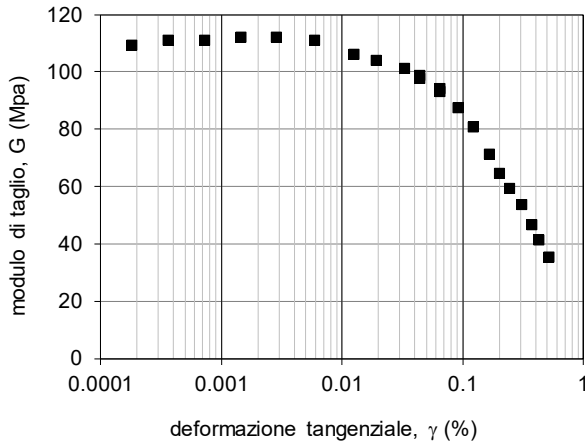


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APPENDICE

1. L'attrezzatura sperimentale per prove di taglio torsionale

L'apparecchiatura utilizzata è la cella di taglio torsionale THOR (Figura A.1), progettata e realizzata presso l'Università di Napoli Federico II (d'Onofrio, 1996) sulla base del prototipo originario di colonna risonante 'fixed-free' messo a punto presso l'Università del Texas di Austin (Isenhower, 1979; Ni, 1987). Le caratteristiche tecniche dell'apparecchiatura sono dettagliate da d'Onofrio et al. (1999). In Tabella A.1 sono sintetizzate le principali caratteristiche del sistema, ed in Figura A.2 uno schema della catena strumentale per il controllo e l'acquisizione.

Tipo di prova		Colonna risonante / Taglio torsionale
Nome dell'apparecchiatura		THOR
Provino	Diametro esterno	36mm
	Altezza	72mm
	Accuratezza nella misura delle dimensioni e del peso del provino	0.1 mm, 0.1gr
	Metodo di preparazione del provino	Fustellamento
	Saturazione	In cella via back-pressure
	Test di B	B > 0.95 mediando i valori ottenuti incrementando e decrementando la pressione di cella
	Contatto tra provino e apparecchiatura	Piastra rugosa avvitata nella testa di carico e pietra porosa di carburo di silicio avvitata al piedistallo
Sistema di applicazione dei carichi torcenti	Tipo	Motore elettromagnetico
Accuratezza del sistema di controllo	Pressione di cella	40 Pa attraverso convertitore E/P
	Contropressione	Senza controllo
	Sistema di applicazione dei carichi torcenti	Controllo in corrente risoluzione $1.6 \cdot 10^{-5}$ Nm (2 Pa per il provino $\varnothing$ 36 mm) Fondo scala 5 Nm Non c'è effetto della forza elettromotrice indotta
Tipo di trasduttori utilizzati	Pressione di cella	Sensore di pressione di elevate prestazioni con membrana al silicone
	Contropressione	Trasduttore miniaturizzato con diaframma al silicone
	Pressione neutra	Trasduttore miniaturizzato con diaframma al silicone
	Coppia torcente	Cella torsionale a strain-gage
	Spostamenti assiali	LVDT in corrente continua
	Variazioni di volume	Trasduttore differenziale di pressione/ volumometro
	Accelerazioni	Accelerometro piezoelettrico
	Rotazioni	Laser /Proximitor
Accuratezza delle misure	Pressione di cella	1.5 Pa
	Contropressione	0.7 Pa
	Pressione interstiziale	0.7 Pa
	Coppia torcente	$6 \cdot 10^{-3}$ Nm
	Spostamenti assiali	1 $\mu$ m
	Variazioni di volume	0.0014 cm <sup>3</sup>
	Rotazioni	$2.5 \cdot 10^{-7}$ rad (prox)

Tabella A.1. Principali caratteristiche della cella di taglio torsionale THOR.



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Figura A.1. L'apparecchiatura di taglio torsionale THOR.

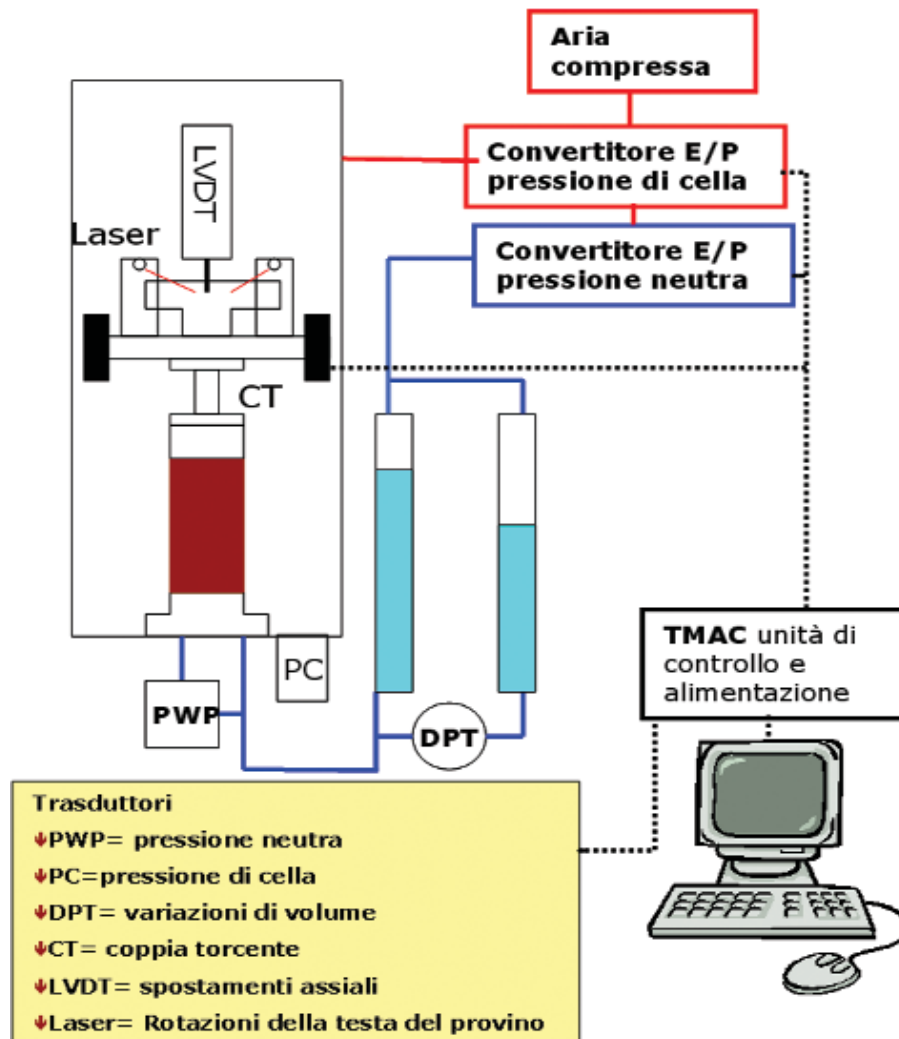


Figura A.2. Diagramma schematico del sistema di controllo e acquisizione di THOR



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## 2. Procedure sperimentali per le prove RC e CTS

Ciascun provino è stato sottoposto ad una prima fase di applicazione della sollecitazione sferica per ricondurre il provino alla tensione efficace stimata agente in sito.

Al termine di questa fase è stato poi applicato il carico torsionale  $M(t)$ , avente caratteristiche diverse in funzione del tipo di prova. In particolare, in relazione alla frequenza con la quale vengono fatte variare le sollecitazioni nel tempo, è possibile distinguere due tipi di prova: prove «cicliche» (torsione ciclica, CTS) e prove «dinamiche» propriamente dette (colonna risonante, RC).

I criteri di interpretazione delle prove in termini di rigidità e smorzamento sono variabili a seconda delle caratteristiche della sollecitazione torsionale applicata. Infatti, nelle prove TS l'effetto delle forze di inerzia è trascurabile e quindi l'interpretazione è di tipo «quasi statico», mentre per le prove RC è necessario fare riferimento a modelli d'analisi dinamici. I criteri descritti in seguito sono quelli pressoché universalmente adottati per l'interpretazione delle prove RC e CTS, conformi alle norme ASTM (ASTM D4015/92). Presso il DIGA sono state messe a punto, e vengono normalmente utilizzate, procedure di interpretazione più complesse, che si avvalgono della completa automazione e digitalizzazione delle prove. Queste procedure, ampiamente descritte altrove (Papa et al., 1988; Silvestri, 1991, d'Onofrio, 1996), tra l'altro consentono di aumentare l'affidabilità dei risultati anche quando il livello di deformazioni indagato è basso e quindi si è in presenza di un rapporto segnale/rumore non elevato. Per approfondimenti si rimanda a Silvestri (1991).

### 2.1 Prove di colonna risonante (RC)

Durante una prova di colonna risonante (Figura A.3) il provino è sottoposto ad una sollecitazione torsionale di ampiezza  $M$  costante e frequenza  $f$  variabile nel tempo:

$$M(t) = M \sin[2\pi ft]$$

Nell'attrezzatura utilizzata, l'estremità superiore del provino è libera, mentre la base è rigidamente vincolata al piedistallo fisso; in tal modo lo schema dinamico di riferimento è del tipo «a base fissa» o «fixed-free» (Woods, 1978).

Durante la prova, viene registrata la vibrazione della testa del provino in termini di rotazione,  $\theta$ , rilevata a seconda dei casi da una coppia di sensori laser oppure da due coppie di trasduttori di prossimità. Tale misura viene convertita in deformazioni tangenziali,  $\gamma$ , mediante le opportune costanti di taratura (d'Onofrio, 1996). La risposta del provino risulta in ogni istante isofrequenziale con la sollecitazione, mentre l'ampiezza ( $\theta$  o  $\gamma$ ) varia in relazione alla frequenza, ed attinge il valore massimo quando vengono raggiunte le cosiddette "condizioni di risonanza" ( $f = f_R$ ).

Il modulo tangenziale  $G$  viene dedotto dalla misura della velocità delle onde di taglio,  $V_s$ , ottenuta analizzando la risposta del sistema composto da provino e dispositivo di carico torsionale, sulla base di classici modelli teorici di vibrazione torsionale di solidi cilindrici (Richart et al, 1970). Dalla conoscenza delle caratteristiche fisico-geometriche del sistema,  $V_s$  e  $G$  si ricavano applicando le espressioni:

$$V_s = \frac{2\pi f L}{\beta}$$

$$G = \rho V_s^2$$

dove  $L$  indica l'altezza del provino e  $\rho$  la densità del terreno. La costante adimensionale  $\beta$  è funzione dell'inerzia polare di massa del provino,  $I$ , e di quella del sistema di eccitazione,  $I_0$ , secondo l'equazione:

$$\frac{I}{I_0} = \beta \tan \beta$$

Dalla curva di risposta è possibile anche ricavare il fattore di smorzamento  $D$ , individuando i valori di frequenza ( $f_1, f_2$ ) corrispondenti ad un'ampiezza di vibrazione pari a  $\gamma_{\max}/\sqrt{2}$  (metodo della "semibanda di potenza"):

$$D_{hp} = \frac{f_2 - f_1}{2 f_R}$$

A causa della non linearità e della degradazione ciclica, questo criterio non sempre fornisce una valutazione attendibile del fattore di smorzamento  $D$ . In casi del genere si può, in alternativa, ricorrere al metodo basato sull'espressione analitica del





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fattore di risonanza (metodo del fattore di risonanza), cioè il rapporto tra il valore di picco,  $\gamma_{\max}$ , della curva di risposta  $\gamma(f)$  e la rotazione statica corrispondente ad una coppia di eguale ampiezza  $M$ . Da esso si ricava  $D$ , una volta noti le ampiezze  $M$  e  $\gamma_{\max}$ , ed il valore di  $G$  già calcolato, con l'espressione seguente:

$$D_{rf} = \frac{M_0 \bar{R}}{2G\gamma_{\max}}$$

Questo metodo appare in genere più attendibile di quello precedente, perché meno sensibile agli effetti della non linearità e della degradazione ciclica del terreno.

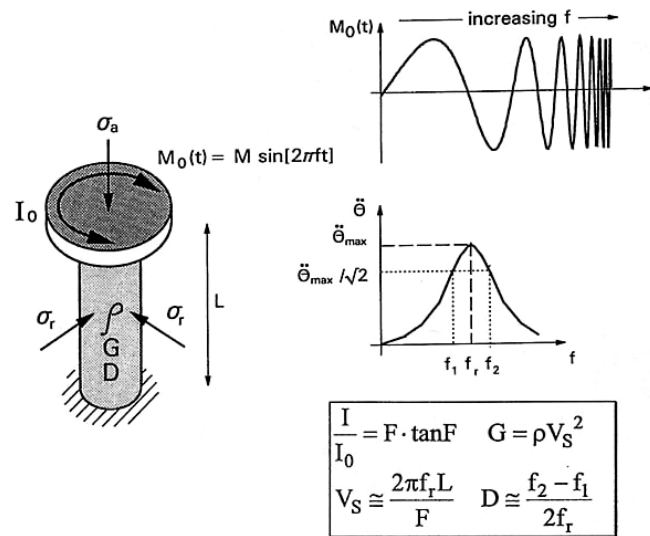


Figura A.3: Interpretazione delle prove di colonna risonante.



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## 2.2 Prova di torsione ciclica (CTS)

Durante una prova di torsione ciclica (Figura A.4), il provino viene sottoposto ad un momento torcente  $M(t)$  variabile nel tempo con legge sinusoidale (di ampiezza e frequenza costanti) e si misura la rotazione della testa  $\theta(t)$ .

Le tracce temporali rappresentative di momenti e rotazioni vengono tradotte in termini di andamenti  $\tau(t)$  e  $\gamma(t)$ , mediante le opportune costanti di taratura ed assumendo alcune ipotesi semplificative sulla distribuzione dello stato tensio-deformativo all'interno del provino.

Per ciascun ciclo di carico si individuano quindi i valori di picco della tensione e della deformazione tangenziali ( $\tau_{max}$  e  $\gamma_{max}$ ), e l'andamento del ciclo di isteresi risultante dall'accoppiamento di  $\tau(t)$  e  $\gamma(t)$ .

I valori di  $G$  e  $D$  vengono calcolati utilizzando le relazioni:

$$G = \frac{\tau_{pp}}{\gamma_{pp}} \qquad D = \frac{W_d}{4\pi W_s}$$

Per l'interpretazione dei risultati relativi alle prove di torsione ciclica si è attribuita maggiore affidabilità a tecniche di regressione statistica ai bassi livelli di deformazione (adoperando una regressione sinusoidale, cfr. Papa et al., 1988); non appena i disturbi elettrici sono apparsi senz'altro trascurabili, si è ricorsi ai criteri ordinari (ampiezze picco-picco, area del ciclo di isteresi).

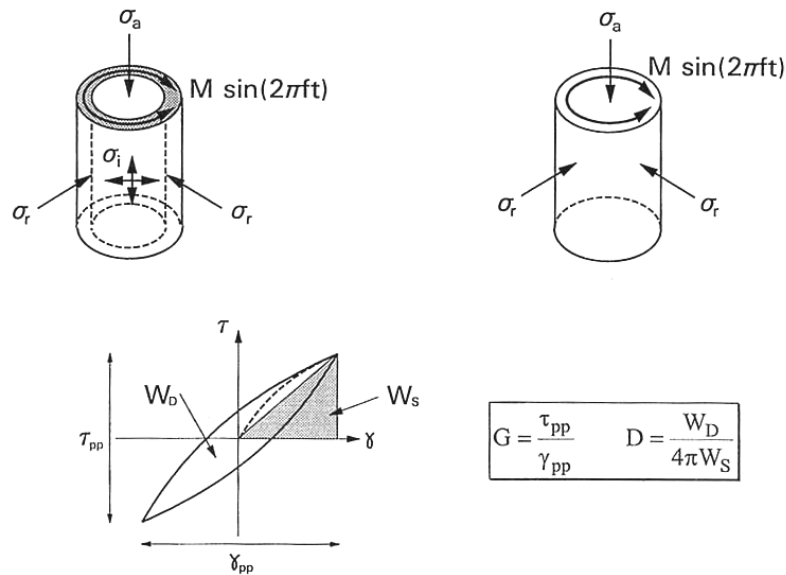


Figura A.4: Interpretazione delle prove di torsione ciclica.



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## Riferimenti

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