



## AmSpec Italia S.r.l.

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MOD LABNA-ENEL Rev 05

Pg. 1/2

CLIENT  
SAMPLE CONTAINER  
AMSPEC REF.  
PRODUCT (\$)  
SAMPLE ORIGIN (\$)  
SAMPLING BY (\$)  
PORT / HUB (\$)  
SAMPLING DATE (\$)  
RECEIVING DATE  
GRUPPO (\$)

ENEL TRADE S.p.A  
plastic bag 100g + bag 2Kg  
615-23-01277  
COAL  
CAMPIONE MEDIO GIORNALIERO  
INSPECTORATE ITCOAJ23000879  
CIVITAVECCHIA  
1-31/10/2023  
01/12/2023  
CRB - GR4

	SAMPLE	METHODS	CRB - GR4
	SEAL NR		1874463-A022317- 1874459
	TEST REPORT		615-23-01277-002
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018	Total moisture %	ISO 589-B2:2008	5,5
	Ash %	ISO 1171:2010	13,79
	Volatile matter %	ISO 562:2010	25,5
	Fixed Carbon %	ASTM D3180-15	55,2
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6301
	Gross Calorific Value Btu/lb	ISO 1928:2020	11341
	Net Calorific Value Kcal/kg	ISO 1928:2020	6081
	Net Calorific Value Btu/lb	ISO 1928:2020	10946
	Sulphur %	ASTM D4239-18e1	0,64
	Carbon %	ASTM D5373-21	63,3
	Total Hydrogen %	ASTM D5373-21	4,30
	Nitrogen %	ASTM D5373-21	1,53
	Coal Hydrogen %	ASTM D3180-15	3,68
	Oxygen %	ASTM D3176-15	11,6
91,10  AS DETERMINED	Chlorine ppm (*)	ASTM D6721-01(15)	43
	Fluorine ppm (*)	ASTM D3761-10	84
	Moisture %	ASTM D7582-15	2,68
	Ash %	ISO 1171:2010	14,20
	Volatile matter %	ISO 562:2010	26,3
	Fixed Carbon %	ASTM D7582-15	56,8
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6489
	Gross Calorific Value Btu/lb	ISO 1928:2020	11681
	Net Calorific Value Kcal/kg	ISO 1928:2020	6279
	Net Calorific Value Btu/lb	ISO 1928:2020	11303
	Sulphur %	ASTM D4239-18e1	0,66
	Carbon %	ASTM D5373-21	65,2
	Total Hydrogen %	ASTM D5373-21	4,09
	Nitrogen %	ASTM D5373-21	1,58
DRY BASIS	Coal Hydrogen %	ASTM D3180-15	3,79
	Oxygen %	ASTM D3176-15	14,3
	Chlorine ppm (*)	ASTM D6721-01(15)	44
	Fluorine ppm (*)	ASTM D3761-10	86
	Ash %	ISO 1171:2010	14,59
	Volatile matter %	ISO 562:2010	27,0
	Fixed Carbon %	ASTM D3180-15	58,4
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6669
	Gross Calorific Value Btu/lb	ISO 1928:2020	12003
	Net Calorific Value Kcal/kg	ISO 1928:2020	6468
	Net Calorific Value Btu/lb	ISO 1928:2020	11642
	Sulphur %	ASTM D4239-18e1	0,68
	Carbon %	ASTM D5373-21	67,0
	Nitrogen %	ASTM D5373-21	1,62
	Total Hydrogen %	ASTM D5373-21	3,89
	Oxygen %	ASTM D3176-15	12,2
	Chlorine ppm (*)	ASTM D6721-01(15)	45
	Fluorine ppm (*)	ASTM D3761-10	88

Precision parameter apply in the determination of the test results are specified above.

This Test Report is for this sample only, the laboratory is not responsible for the sampling stage, the results refer to the sample, as received.

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Tests marked "\*" are not included in the ISO/IEC 17025 accreditation of the laboratory

Napoli, 12/12/2023

dott. Francesco Anastasio  
LAB MANAGER



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CLIENT	ENEL TRADE S.p.A
SAMPLE CONTAINER	plastic bag 100g + bag 2Kg
AMSPEC REF.	615-23-01277
PRODUCT (\$)	COAL
SAMPLE ORIGIN (\$)	CAMPIONE MEDIO GIORNALIERO
SAMPLING BY (\$)	INSPECTORATE ITCOAJ23000879
PORT / HUB (\$)	CIVITAVECCHIA
SAMPLING DATE (\$)	1-31/10/2023
RECEIVING DATE	01/12/2023
GRUPPO (\$)	CRB - GR4

Pg. 2/2

	LOT NR	METHODS	CRB - GR4
	SEAL NR		1874463-A022317-1874459
	TEST REPORT		615-23-01277-002
AS RECEIVED	Total moisture %	ISO 589-B2:2008	5,5
	Antimonio AR mg/kg	ASTM D6357-21a	<0,17
	Arsenico AR (*) mg/kg	ASTM D4606-15	<0,5
	Berillio AR mg/kg	ASTM D6357-21a	<0,42
	Cadmio AR mg/kg	ASTM D6357-21a	<0,02
	Cromo AR mg/kg	ASTM D6357-21a	17,1
	Manganese AR mg/kg	ASTM D6357-21a	60,11
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	15,42
	Piombo AR mg/kg	ASTM D6357-21a	< 1,57
	Selenio AR (*) mg/kg	ASTM D4606-15	< 0.6
	Vanadio AR mg/kg	ASTM D6357-21a	16,52
	Zinco AR mg/kg	ASTM D6357-21a	17,48
AS DETERMINED	Moisture %	ASTM D7582-15	2,68
	Antimonio AD mg/kg	ASTM D6357-21a	<0,17
	Arsenico AD (*) mg/kg	ASTM D4606-15	<0,5
	Berillio AD mg/kg	ASTM D6357-21a	<0,42
	Cadmio AD mg/kg	ASTM D6357-21a	<0,02
	Cromo AD mg/kg	ASTM D6357-21a	17,61
	Manganese AD mg/kg	ASTM D6357-21a	61,9
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	15,88
	Piombo AD mg/kg	ASTM D6357-21a	< 1,57
	Selenio AD (*) mg/kg	ASTM D4606-15	< 0.6
	Vanadio AD mg/kg	ASTM D6357-21a	17,01
	Zinco AD mg/kg	ASTM D6357-21a	18
DRY BASIS	Antimonio DB mg/kg	ASTM D6357-21a	<0,17
	Arsenico DB (#) mg/kg	ASTM D4606-15	<0,5
	Berillio DB mg/kg	ASTM D6357-21a	<0,42
	Cadmio DB mg/kg	ASTM D6357-21a	<0,02
	Cromo DB mg/kg	ASTM D6357-21a	18,09
	Manganese DB mg/kg	ASTM D6357-21a	63,6
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	16,32
	Piombo DB mg/kg	ASTM D6357-21a	< 1,57
	Selenio DB (#) mg/kg	ASTM D4606-15	< 0.6
	Vanadio DB mg/kg	ASTM D6357-21a	17,48
	Zinco DB mg/kg	ASTM D6357-21a	18,5

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