



AmSpec Italia S.r.l.

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80143 Napoli - Italia
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MOD LABNA-ENEL Rev 05



LAB N° 1281 L

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
615-23-00554
COAL
CAMPIONE MEDIO GIORNALIERO
AMSPEC ITALIA by ASTM D 2013-21
CIVITAVECCHIA
1 to 30 /04/2023
17/05/2023
CRB - GR 4

Pg. 1/2

	SAMPLE	METHODS	CRB GR 4
	SEAL NR		not sealed
	TEST REPORT		615-23-00554-001
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 93,87	Total moisture %	ISO 589-B2:2008	5,0
	Ash %	ISO 1171:2010	10,55
	Volatile matter %	ISO 562:2010	26,0
	Fixed Carbon %	ASTM D3180-15	58,5
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6535
	Gross Calorific Value Btu/lb	ISO 1928:2020	11763
	Net Calorific Value Kcal/kg	ISO 1928:2020	6274
	Net Calorific Value Btu/lb	ISO 1928:2020	11294
	Sulphur %	ASTM D4239-18e1	0,54
	Carbon %	ASTM D5373-21	67,3
	Total Hydrogen %	ASTM D5373-21	5,08
	Nitrogen %	ASTM D5373-21	1,51
	Coal Hydrogen %	ASTM D3180-15	4,52
	Oxygen %	ASTM D3176-15	10,7
	Chlorine ppm (#)	ASTM D6721-01(15)	<20
	Fluorine ppm (#)	ASTM D3761-10	129
AS DETERMINED	Moisture %	ASTM D7582-15	2,68
	Ash %	ISO 1171:2010	10,81
	Volatile matter %	ISO 562:2010	26,6
	Fixed Carbon %	ASTM D7582-15	59,9
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6696
	Gross Calorific Value Btu/lb	ISO 1928:2020	12051
	Net Calorific Value Kcal/kg	ISO 1928:2020	6442
	Net Calorific Value Btu/lb	ISO 1928:2020	11595
	Sulphur %	ASTM D4239-18e1	0,55
	Carbon %	ASTM D5373-21	68,9
	Total Hydrogen %	ASTM D5373-21	4,93
	Nitrogen %	ASTM D5373-21	1,55
	Coal Hydrogen %	ASTM D3180-15	4,63
	Oxygen %	ASTM D3176-15	13,3
	Chlorine ppm (#)	ASTM D6721-01(15)	<20
	Fluorine ppm (#)	ASTM D3761-10	132
DRY BASIS	Ash %	ISO 1171:2010	11,11
	Volatile matter %	ISO 562:2010	27,3
	Fixed Carbon %	ASTM D3180-15	61,6
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6881
	Gross Calorific Value Btu/lb	ISO 1928:2020	12382
	Net Calorific Value Kcal/kg	ISO 1928:2020	6635
	Net Calorific Value Btu/lb	ISO 1928:2020	11943
	Sulphur %	ASTM D4239-18e1	0,57
	Carbon %	ASTM D5373-21	70,8
	Nitrogen %	ASTM D5373-21	1,59
	Total Hydrogen %	ASTM D5373-21	4,76
	Oxygen %	ASTM D3176-15	11,2
	Chlorine ppm (#)	ASTM D6721-01(15)	<20
	Fluorine ppm (#)	ASTM D3761-10	136

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

Tests marked "#" are performed in subcontracted laboratory Accredited ISO 17025 by Accredia n. 0736L - A&C

Napoli, 31/05/2023

dott. Francesco Anastasio

LAB MANAGER



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Pg. 2/2

	LOT NR	METHODS	CRB GR 4
	SEAL NR		not sealed
	TEST REPORT		615-23-00554-001
AS RECEIVED	Total moisture %	ISO 589-B2:2008	5,0
	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	14,23
	Manganese AR mg/kg	ASTM D6357-21a	61,54
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	14,9
	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	16,56
	Zinco AR mg/kg	ASTM D6357-21a	16,48
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	14,58
	Manganese AD mg/kg	ASTM D6357-21a	63,04
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	15,26
	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	16,96
	Zinco AD mg/kg	ASTM D6357-21a	16,88
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	14,98
	Manganese DB mg/kg	ASTM D6357-21a	64,78
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	15,68
	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	17,43
	Zinco DB mg/kg	ASTM D6357-21a	17,34

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