



AmSpec Italia S.r.l.

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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
615-23-01124 + 616-23-00437
COAL
CAMPIONE MEDIO GIORNALIERO
AMSPEC ITALIA by ASTM D 2013-21
CIVITAVECCHIA
1 to 30/08/2023
20/09/2023
CRB - GR 3

Pg. 1/2

	SAMPLE	METHODS	CRB GR 3
	SEAL NR		323253
	TEST REPORT		615-23-01124-002
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 99,32	Total moisture %	ISO 589-B2:2008	5,8
	Ash %	ISO 1171:2010	12,86
	Volatile matter %	ISO 562:2010	25,9
	Fixed Carbon %	ASTM D3180-15	55,4
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6105
	Gross Calorific Value Btu/lb	ISO 1928:2020	10989
	Net Calorific Value Kcal/kg	ISO 1928:2020	5868
	Net Calorific Value Btu/lb	ISO 1928:2020	10563
	Sulphur %	ASTM D4239-18e1	0,69
	Carbon %	ASTM D5373-21	66,6
	Total Hydrogen %	ASTM D5373-21	4,62
	Nitrogen %	ASTM D5373-21	1,70
	Coal Hydrogen %	ASTM D3180-15	3,97
	Oxygen %	ASTM D3176-15	8,4
	Chlorine ppm (*)	ASTM D6721-01(15)	120
	Fluorine ppm (*)	ASTM D3761-10	76
AS DETERMINED	Moisture %	ASTM D7582-15	4,15
	Ash %	ISO 1171:2010	13,09
	Volatile matter %	ISO 562:2010	26,4
	Fixed Carbon %	ASTM D7582-15	56,4
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6209
	Gross Calorific Value Btu/lb	ISO 1928:2020	11178
	Net Calorific Value Kcal/kg	ISO 1928:2020	5981
	Net Calorific Value Btu/lb	ISO 1928:2020	10765
	Sulphur %	ASTM D4239-18e1	0,70
	Carbon %	ASTM D5373-21	67,8
	Total Hydrogen %	ASTM D5373-21	4,50
	Nitrogen %	ASTM D5373-21	1,73
	Coal Hydrogen %	ASTM D3180-15	4,04
	Oxygen %	ASTM D3176-15	12,2
	Chlorine ppm (*)	ASTM D6721-01(15)	122
	Fluorine ppm (*)	ASTM D3761-10	77
DRY BASIS	Ash %	ISO 1171:2010	13,66
	Volatile matter %	ISO 562:2010	27,5
	Fixed Carbon %	ASTM D3180-15	58,8
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6478
	Gross Calorific Value Btu/lb	ISO 1928:2020	11664
	Net Calorific Value Kcal/kg	ISO 1928:2020	6265
	Net Calorific Value Btu/lb	ISO 1928:2020	11277
	Sulphur %	ASTM D4239-18e1	0,73
	Carbon %	ASTM D5373-21	70,7
	Nitrogen %	ASTM D5373-21	1,80
	Total Hydrogen %	ASTM D5373-21	4,21
	Oxygen %	ASTM D3176-15	8,9
	Chlorine ppm (*)	ASTM D6721-01(15)	127
	Fluorine ppm (*)	ASTM D3761-10	80

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

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

Napoli, 05/10/2023

dott. Francesco Anastasio
LAB MANAGER



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MOD LABNA-ENEL Rev 05



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Pg. 2/2

	LOT NR	METHODS	CRB GR 3
	SEAL NR		323253
	TEST REPORT		615-23-01124-002
AS RECEIVED	Total moisture %	ISO 589-B2:2008	5,8
	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	15,74
	Manganese AR mg/kg	ASTM D6357-21a	59,08
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	15,6
	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	17
	Zinco AR mg/kg	ASTM D6357-21a	16,54
AS DETERMINED	Moisture %	ASTM D7582-15	4,15
	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	16,02
	Manganese AD mg/kg	ASTM D6357-21a	60,11
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	15,87
	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	17,3
	Zinco AD mg/kg	ASTM D6357-21a	16,83
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	16,71
	Manganese DB mg/kg	ASTM D6357-21a	62,71
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	16,56
	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	18,05
	Zinco DB mg/kg	ASTM D6357-21a	17,56

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