



AmSpec Italia S.r.l.

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Tel: +39 081 5592822 Fax: +39 081 5597576



LAB N° 1281 L

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

ENEL TRADE S.p.A
plastic bag 100g + bag 2Kg
615-22-00909
COAL
I SEMESTRE 2023
SAMPLING&ANALYSIS - by ASTM D2013-0
TORRE VALDALIGA NORD - CIVITAVECCHIA
11-13/07/2023
07/08/2023
GR3

Pg. 1/2

	SAMPLE	METHODS	CRB-micro GR 3
	SEAL NR		not sealed
	TEST REPORT		615-23-00909-002
AS DETERMINED	Moisture %	ASTM D7582-15	2,73
	Ash %	ISO 1171:2010	14,55
	Volatile matter %	ISO 562:2010	24,5
	Fixed Carbon %	ASTM D7582-15	58,2
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6076
	Gross Calorific Value Btu/lb	ISO 1928:2020	10937
	Net Calorific Value Kcal/kg	ISO 1928:2020	5873
	Net Calorific Value Btu/lb	ISO 1928:2020	10572
	Sulphur %	ASTM D4239-18e1	0,77
	Carbon %	ASTM D5373-21	66,0
	Total Hydrogen %	ASTM D5373-21	3,92
	Nitrogen %	ASTM D5373-21	1,50
	Coal Hydrogen %	ASTM D3180-15	3,61
	Oxygen %	ASTM D3176-15	13,3
	Chlorine ppm (#)	ASTM D6721-01(15)	91
	Fluorine ppm (#)	ASTM D3761-10	80
DRY BASIS	Ash %	ISO 1171:2010	14,96
	Volatile matter %	ISO 562:2010	25,2
	Fixed Carbon %	ASTM D3180-15	59,8
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6246
	Gross Calorific Value Btu/lb	ISO 1928:2020	11242
	Net Calorific Value Kcal/kg	ISO 1928:2020	6055
	Net Calorific Value Btu/lb	ISO 1928:2020	10899
	Sulphur %	ASTM D4239-18e1	0,79
	Carbon %	ASTM D5373-21	67,9
	Nitrogen %	ASTM D5373-21	1,54
	Total Hydrogen %	ASTM D5373-21	3,71
	Oxygen %	ASTM D3176-15	11,2
	Chlorine ppm (#)	ASTM D6721-01(15)	94
	Fluorine ppm (#)	ASTM D3761-10	82

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

Napoli, 21-08-2023

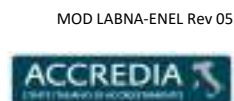
dott. Francesco Anastasio

IAR MANAGER



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MOD LABNA-ENEL Rev 05

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GR3

Pg. 2/2

	LOT NR	METHODS	CRB-micro GR 3
	SEAL NR		not sealed
	TEST REPORT		615-23-00909-002
AS DETERMINED	Moisture %	ASTM D7582-15	2,73
	Antimonio AD mg/kg	ASTM D6357-21a	< 1
	Arsenico AD (*) mg/kg	ASTM D4606-15	< 0,7
	Berillio AD mg/kg	ASTM D6357-21a	< 1
	Cadmio AD mg/kg	ASTM D6357-21a	< 1
	Cromo AD mg/kg	ASTM D6357-21a	13
	Manganese AD mg/kg	ASTM D6357-21a	35
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	15
	Piombo AD mg/kg	ASTM D6357-21a	< 10
	Selenio AD (*) mg/kg	ASTM D4606-15	< 0,6
	Vanadio AD mg/kg	ASTM D6357-21a	17
	Zinco AD mg/kg	ASTM D6357-21a	17
DRY BASIS	Antimonio DB mg/kg	ASTM D6357-21a	< 1
	Arsenico DB (*) mg/kg	ASTM D4606-15	< 1
	Berillio DB mg/kg	ASTM D6357-21a	< 1
	Cadmio DB mg/kg	ASTM D6357-21a	< 1
	Cromo DB mg/kg	ASTM D6357-21a	13
	Manganese DB mg/kg	ASTM D6357-21a	36
	Mercurio DB (*) mg/kg	ASTM D3684-06	< 1
	Nichel DB mg/kg	ASTM D6357-21a	15
	Piombo DB mg/kg	ASTM D6357-21a	< 10
	Selenio DB (*) mg/kg	ASTM D4606-15	< 0,6
	Vanadio DB mg/kg	ASTM D6357-21a	17
	Zinco DB mg/kg	ASTM D6357-21a	17

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