



AmSpec Italia S.r.l.

Via del Pascone, 8A
80143 Napoli – Italia
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
615-23-00909
COAL
I SEMESTRE 2023
SAMPLING&ANALYSIS - by ASTM D2013-0
TORRE VALDALIGA NORD - CIVITAVECCHIA
14-16/06/2023
07/08/2023
GR2

Pg. 1/2

	SAMPLE	METHODS	CRB-micro GR 2
	SEAL NR		not sealed
	TEST REPORT		615-23-00909-001
AS DETERMINED	Moisture %	ASTM D7582-15	2,71
	Ash %	ISO 1171:2010	14,55
	Volatile matter %	ISO 562:2010	23,7
	Fixed Carbon %	ASTM D7582-15	59,0
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6219
	Gross Calorific Value Btu/lb	ISO 1928:2020	11195
	Net Calorific Value Kcal/kg	ISO 1928:2020	6012
	Net Calorific Value Btu/lb	ISO 1928:2020	10821
	Sulphur %	ASTM D4239-18e1	0,67
	Carbon %	ASTM D5373-21	65,5
	Total Hydrogen %	ASTM D5373-21	4,08
	Nitrogen %	ASTM D5373-21	1,42
	Coal Hydrogen %	ASTM D3180-15	3,78
	Oxygen %	ASTM D3176-15	13,8
	Chlorine ppm (#)	ASTM D6721-01(15)	88
DRY BASIS	Fluorine ppm (#)	ASTM D3761-10	83
	Ash %	ISO 1171:2010	14,96
	Volatile matter %	ISO 562:2010	24,4
	Fixed Carbon %	ASTM D3180-15	60,6
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6392
	Gross Calorific Value Btu/lb	ISO 1928:2020	11509
	Net Calorific Value Kcal/kg	ISO 1928:2020	6193
	Net Calorific Value Btu/lb	ISO 1928:2020	11148
	Sulphur %	ASTM D4239-18e1	0,69
	Carbon %	ASTM D5373-21	67,3
	Nitrogen %	ASTM D5373-21	1,46
	Total Hydrogen %	ASTM D5373-21	3,89
	Oxygen %	ASTM D3176-15	11,7
	Chlorine ppm (#)	ASTM D6721-01(15)	91
	Fluorine ppm (#)	ASTM D3761-10	85

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

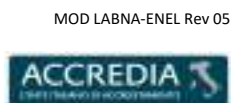
dott. Francesco Anastasio

IAR MANAGER



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MOD LABNA-ENEL Rev 05

Pg. 2/2

CLIENT	ENEL TRADE S.p.A
SAMPLE CONTAINER	plastic bag 100g + bag 2Kg
AMSPEC REF.	615-23-00909
PRODUCT (§)	COAL
OPERATION (§)	I SEMESTRE 2023
SAMPLING BY (§)	SAMPLING&ANALYSIS - by ASTM D2013-0
PORT / HUB (§)	TORRE VALDALIGA NORD - CIVITAVECCHIA
SAMPLING DATE (§)	14-16/06/2023
RECEIVING DATE	07/08/2023
GRUPPO (§)	GR2

	LOT NR	METHODS	CRB-micro GR 2
	SEAL NR		not sealed
	TEST REPORT		615-23-00909-001
AS DETERMINED	Moisture %	ASTM D7582-15	2,71
	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	11
	Manganese AD mg/kg	ASTM D6357-21a	33
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	18
	Piombo AD mg/kg	ASTM D6357-21a	< 10
	Selenio AD (*) mg/kg	ASTM D4606-15	< 0,6
	Vanadio AD mg/kg	ASTM D6357-21a	15
	Zinco AD mg/kg	ASTM D6357-21a	16
DRY BASIS	Antimonio DB mg/kg	ASTM D6357-21a	< 1
	Arsenico DB (#) mg/kg	ASTM D4606-15	< 0,7
	Berillio DB mg/kg	ASTM D6357-21a	< 1
	Cadmio DB mg/kg	ASTM D6357-21a	< 1
	Cromo DB mg/kg	ASTM D6357-21a	11
	Manganese DB mg/kg	ASTM D6357-21a	34
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	19
	Piombo DB mg/kg	ASTM D6357-21a	< 10
	Selenio DB (#) mg/kg	ASTM D4606-15	< 0,6
	Vanadio DB mg/kg	ASTM D6357-21a	15
	Zinco DB mg/kg	ASTM D6357-21a	16

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Napoli, 21/08/2023

dott. Francesco Anastasio
LAB MANAGER