



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
615-23-01124 + 616-23-00437
COAL
CAMPIONE MEDIO GIORNALIERO
AMSPEC ITALIA by ASTM D 2013-21
CIVITAVECCHIA
1-31/08/2023
20/09/2023
CRB - GR 2

	SAMPLE	METHODS	CRB GR 2
	SEAL NR		323241
	TEST REPORT		615-23-01124-001
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 90,80	Total moisture %	ISO 589-B2:2008	4,1
	Ash %	ISO 1171:2010	14,35
	Volatile matter %	ISO 562:2010	27,3
	Fixed Carbon %	ASTM D3180-15	54,3
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6325
	Gross Calorific Value Btu/lb	ISO 1928:2020	11384
	Net Calorific Value Kcal/kg	ISO 1928:2020	6091
	Net Calorific Value Btu/lb	ISO 1928:2020	10963
	Sulphur %	ASTM D4239-18e1	0,67
	Carbon %	ASTM D5373-21	63,2
	Total Hydrogen %	ASTM D5373-21	4,52
	Nitrogen %	ASTM D5373-21	1,48
	Coal Hydrogen %	ASTM D3180-15	4,07
	Oxygen %	ASTM D3176-15	12,1
	Chlorine ppm (*)	ASTM D6721-01(15)	39
	Fluorine ppm (*)	ASTM D3761-10	59
AS DETERMINED	Moisture %	ASTM D7582-15	2,34
	Ash %	ISO 1171:2010	14,61
	Volatile matter %	ISO 562:2010	27,8
	Fixed Carbon %	ASTM D7582-15	55,3
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6440
	Gross Calorific Value Btu/lb	ISO 1928:2020	11591
	Net Calorific Value Kcal/kg	ISO 1928:2020	6215
	Net Calorific Value Btu/lb	ISO 1928:2020	11187
	Sulphur %	ASTM D4239-18e1	0,68
	Carbon %	ASTM D5373-21	64,4
	Total Hydrogen %	ASTM D5373-21	4,40
	Nitrogen %	ASTM D5373-21	1,51
	Coal Hydrogen %	ASTM D3180-15	4,14
	Oxygen %	ASTM D3176-15	14,4
	Chlorine ppm (*)	ASTM D6721-01(15)	40
	Fluorine ppm (*)	ASTM D3761-10	60
DRY BASIS	Ash %	ISO 1171:2010	14,96
	Volatile matter %	ISO 562:2010	28,5
	Fixed Carbon %	ASTM D3180-15	56,5
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6595
	Gross Calorific Value Btu/lb	ISO 1928:2020	11870
	Net Calorific Value Kcal/kg	ISO 1928:2020	6377
	Net Calorific Value Btu/lb	ISO 1928:2020	11479
	Sulphur %	ASTM D4239-18e1	0,70
	Carbon %	ASTM D5373-21	65,9
	Nitrogen %	ASTM D5373-21	1,55
	Total Hydrogen %	ASTM D5373-21	4,24
	Oxygen %	ASTM D3176-15	12,6
	Chlorine ppm (*)	ASTM D6721-01(15)	41
	Fluorine ppm (*)	ASTM D3761-10	61

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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Pg. 2/2

CLIENT	ENEL TRADE S.p.A
SAMPLE CONTAINER	plastic bag 100g + bag 2Kg
AMSPEC REF.	615-23-01124 + 616-23-00437
PRODUCT (\$)	COAL
SAMPLE ORIGIN (\$)	CAMPIONE MEDIO GIORNALIERO
SAMPLING BY (\$)	AMSPEC ITALIA by ASTM D 2013-21
PORT / HUB (\$)	CIVITAVECCHIA
SAMPLING DATE (\$)	1-31/08/2023
RECEIVING DATE	20/09/2023
GRUPPO (\$)	CRB - GR 2

	LOT NR		CRB GR 2
	SEAL NR	METHODS	323241
	TEST REPORT		615-23-01124-001
AS RECEIVED	Total moisture %	ISO 589-B2:2008	4,1
	Antimonio AR mg/kg	ASTM D6357-21a	<0,17
	Arsenico AR (*) mg/kg	ASTM D4606-15	<0,7
	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	16,18
	Manganese AR mg/kg	ASTM D6357-21a	59,89
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	14,63
	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	15,73
	Zinco AR mg/kg	ASTM D6357-21a	16,92
AS DETERMINED	Moisture %	ASTM D7582-15	2,34
	Antimonio AD mg/kg	ASTM D6357-21a	<0,17
	Arsenico AD (*) mg/kg	ASTM D4606-15	<0,7
	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	16,48
	Manganese AD mg/kg	ASTM D6357-21a	60,99
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	14,9
	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	16,02
	Zinco AD mg/kg	ASTM D6357-21a	17,23
DRY BASIS	Antimonio DB mg/kg	ASTM D6357-21a	<0,17
	Arsenico DB (#) mg/kg	ASTM D4606-15	<0,7
	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	16,87
	Manganese DB mg/kg	ASTM D6357-21a	62,45
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	15,26
	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	16,4
	Zinco DB mg/kg	ASTM D6357-21a	17,64

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