



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 4

	SAMPLE	METHODS	CRB GR 4
	SEAL NR		323276
	TEST REPORT		615-23-01124-003
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 90,92	Total moisture %	ISO 589-B2:2008	7,8
	Ash %	ISO 1171:2010	13,75
	Volatile matter %	ISO 562:2010	25,7
	Fixed Carbon %	ASTM D3180-15	52,8
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6079
	Gross Calorific Value Btu/lb	ISO 1928:2020	10942
	Net Calorific Value Kcal/kg	ISO 1928:2020	5833
	Net Calorific Value Btu/lb	ISO 1928:2020	10499
	Sulphur %	ASTM D4239-18e1	0,62
	Carbon %	ASTM D5373-21	60,6
	Total Hydrogen %	ASTM D5373-21	4,76
	Nitrogen %	ASTM D5373-21	1,42
	Coal Hydrogen %	ASTM D3180-15	3,88
	Oxygen %	ASTM D3176-15	11,9
	Chlorine ppm (*)	ASTM D6721-01(15)	36
AS DETERMINED	Fluorine ppm (*)	ASTM D3761-10	56
	Moisture %	ASTM D7582-15	2,43
	Ash %	ISO 1171:2010	14,55
	Volatile matter %	ISO 562:2010	27,2
	Fixed Carbon %	ASTM D7582-15	55,8
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6432
	Gross Calorific Value Btu/lb	ISO 1928:2020	11578
	Net Calorific Value Kcal/kg	ISO 1928:2020	6208
	Net Calorific Value Btu/lb	ISO 1928:2020	11174
	Sulphur %	ASTM D4239-18e1	0,65
	Carbon %	ASTM D5373-21	64,1
	Total Hydrogen %	ASTM D5373-21	4,38
	Nitrogen %	ASTM D5373-21	1,50
	Coal Hydrogen %	ASTM D3180-15	4,11
	Oxygen %	ASTM D3176-15	14,8
DRY BASIS	Chlorine ppm (*)	ASTM D6721-01(15)	38
	Fluorine ppm (*)	ASTM D3761-10	59
	Ash %	ISO 1171:2010	14,91
	Volatile matter %	ISO 562:2010	27,9
	Fixed Carbon %	ASTM D3180-15	57,2
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6592
	Gross Calorific Value Btu/lb	ISO 1928:2020	11866
	Net Calorific Value Kcal/kg	ISO 1928:2020	6377
	Net Calorific Value Btu/lb	ISO 1928:2020	11479
	Sulphur %	ASTM D4239-18e1	0,67
	Carbon %	ASTM D5373-21	65,7
	Nitrogen %	ASTM D5373-21	1,54
	Total Hydrogen %	ASTM D5373-21	4,21
	Oxygen %	ASTM D3176-15	13,0
	Chlorine ppm (*)	ASTM D6721-01(15)	39
	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

	LOT NR	METHODS	CRB GR 4
	SEAL NR		323276
	TEST REPORT		615-23-01124-003
AS RECEIVED	Total moisture %	ISO 589-B2:2008	7,8
	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	15,59
	Manganese AR mg/kg	ASTM D6357-21a	59,61
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	15,33
	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	15,69
AS DETERMINED	Zinco AR mg/kg	ASTM D6357-21a	16,87
	Moisture %	ASTM D7582-15	2,43
	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	16,5
	Manganese AD mg/kg	ASTM D6357-21a	63,08
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	16,22
	Piombo AD mg/kg	ASTM D6357-21a	< 1,57
	Selenio AD (*) mg/kg	ASTM D4606-15	< 0,6
DRY BASIS	Vanadio AD mg/kg	ASTM D6357-21a	16,6
	Zinco AD mg/kg	ASTM D6357-21a	17,85
	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	16,91
	Manganese DB mg/kg	ASTM D6357-21a	64,65
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	16,62
	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	17,01
	Zinco DB mg/kg	ASTM D6357-21a	18,29

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