



AmSpec Italia S.r.l.

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MOD LABNA-ENEL Rev 05



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
615-23-00823 + 616-23-00326
COAL
CAMPIONE MEDIO GIORNALIERO
AMSPEC ITALIA by ASTM D 2013-21
CIVITAVECCHIA
01 to 30/06/2023
14/07/2023
CRB - GR 4

Pg. 1/2

	SAMPLE	METHODS	CRB GR 4
	SEAL NR		not sealed
	TEST REPORT		615-23-00823-001
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 90,92	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
	Fluorine ppm (#)	ASTM D3761-10	56
AS DETERMINED	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
	Chlorine ppm (#)	ASTM D6721-01(15)	38
	Fluorine ppm (#)	ASTM D3761-10	59
DRY BASIS	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.

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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The laboratory is not responsible for the information marked with (\$), that's are provided by the customer.

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 - A&C Napoli, 25/07/2023

dott. Francesco Anastasio
LAB MANAGER



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Pg. 2/2

	LOT NR	METHODS	CRB GR 4
	SEAL NR		not sealed
	TEST REPORT		615-23-00823-001
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	16,88
	Manganese AR mg/kg	ASTM D6357-21a	59,13
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	14,83
	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	16,07
	Zinco AR mg/kg	ASTM D6357-21a	16,12
AS DETERMINED	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	17,86
	Manganese AD mg/kg	ASTM D6357-21a	62,57
	Mercurio AD (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AD mg/kg	ASTM D6357-21a	15,69
	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	17,01
	Zinco AD mg/kg	ASTM D6357-21a	17,06
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	18,3
	Manganese DB mg/kg	ASTM D6357-21a	64,13
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	16,08
	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	17,43
	Zinco DB mg/kg	ASTM D6357-21a	17,48

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Napoli, 25/07/2023

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