



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 bottles 100g + 4Kg
615-24-00038
MIXED COAL
CAMPIONE MEDIO GIORNALIERO
INSPECTORATE ITCOAJ23000879
CIVITAVECCHIA
1-31/12/2023
25/01/2024
CRB - GR4

Pg. 1/2

	SAMPLE	METHODS	CRB - GR4
	SEAL NR		0076570-0076337-0059265- 0059292-0059263
	TEST REPORT		615-24-00038-001
AS RECEIVED EMISSION FACTOR ISO 1928:2020 + ASTM D5373-21 + Reg UE 2066/2018 19/12/2018 GU UE L334 31/12/2018 96,34	Total moisture %	ISO 589-B2:2008	5,7
	Ash %	ISO 1171:2010	7,34
	Volatile matter %	ISO 562:2010	33,1
	Fixed Carbon %	ASTM D3180-15	53,9
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6563
	Gross Calorific Value Btu/lb	ISO 1928:2020	11814
	Net Calorific Value Kcal/kg	ISO 1928:2020	6313
	Net Calorific Value Btu/lb	ISO 1928:2020	11363
	Sulphur %	ASTM D4239-18e1	0,47
	Carbon %	ASTM D5373-21	69,5
	Total Hydrogen %	ASTM D5373-21	4,89
	Nitrogen %	ASTM D5373-21	2,26
	Coal Hydrogen %	ASTM D3180-15	4,25
	Oxygen %	ASTM D3176-15	10,5
	Chlorine ppm (*)	ASTM D6721-01(15)	36
AS DETERMINED	Fluorine ppm (*)	ASTM D3761-10	72
	Moisture %	ASTM D7582-15	2,68
	Ash %	ISO 1171:2010	7,57
	Volatile matter %	ISO 562:2010	34,2
	Fixed Carbon %	ASTM D7582-15	55,6
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6774
	Gross Calorific Value Btu/lb	ISO 1928:2020	12193
	Net Calorific Value Kcal/kg	ISO 1928:2020	6532
	Net Calorific Value Btu/lb	ISO 1928:2020	11758
	Sulphur %	ASTM D4239-18e1	0,49
	Carbon %	ASTM D5373-21	71,7
	Total Hydrogen %	ASTM D5373-21	4,69
	Nitrogen %	ASTM D5373-21	2,33
	Coal Hydrogen %	ASTM D3180-15	4,39
	Oxygen %	ASTM D3176-15	13,2
DRY BASIS	Chlorine ppm (*)	ASTM D6721-01(15)	37
	Fluorine ppm (*)	ASTM D3761-10	74
	Ash %	ISO 1171:2010	7,78
	Volatile matter %	ISO 562:2010	35,1
	Fixed Carbon %	ASTM D3180-15	57,1
	Gross Calorific Value Kcal/kg	ISO 1928:2020	6960
	Gross Calorific Value Btu/lb	ISO 1928:2020	12528
	Net Calorific Value Kcal/kg	ISO 1928:2020	6728
	Net Calorific Value Btu/lb	ISO 1928:2020	12111
	Sulphur %	ASTM D4239-18e1	0,50
	Carbon %	ASTM D5373-21	73,7
	Nitrogen %	ASTM D5373-21	2,39
	Total Hydrogen %	ASTM D5373-21	4,51
	Oxygen %	ASTM D3176-15	11,1
	Chlorine ppm (*)	ASTM D6721-01(15)	38
	Fluorine ppm (*)	ASTM D3761-10	76

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, 05/02/2024

dott. Francesco Anastasio
LAB MANAGER



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Pg. 2/2

	LOT NR	METHODS	CRB - GR4
	SEAL NR		0076570-0076337-0059265- 0059292-0059263
	TEST REPORT		615-24-00038-001
AS RECEIVED	Total moisture %	ISO 589-B2:2008	5,7
	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	15,82
	Manganese AR mg/kg	ASTM D6357-21a	58,72
	Mercurio AR (*) mg/kg	ASTM D3684-06	< 0,1
	Nichel AR mg/kg	ASTM D6357-21a	15,2
	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	17,54
	Zinco AR mg/kg	ASTM D6357-21a	16,98
AS DETERMINED	Moisture %	ASTM D7582-15	2,68
	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	16,33
	Manganese AD mg/kg	ASTM D6357-21a	60,6
	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	18,1
	Zinco AD mg/kg	ASTM D6357-21a	17,52
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	16,78
	Manganese DB mg/kg	ASTM D6357-21a	62,27
	Mercurio DB (#) mg/kg	ASTM D3684-06	< 0,1
	Nichel DB mg/kg	ASTM D6357-21a	16,12
	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	18,6
	Zinco DB mg/kg	ASTM D6357-21a	18

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