

DATA SHEET

22411204 'ESMALTE GE-411 AZUL AZAF. S/Pb. PO

29/10/2025 v1.5

1. PRODUCT IDENTIFICATION

Description	ROYAL BLUE GLAZE. It belongs to the GROSSO SPESSORE GLAZES, designed to be applied over stoneware bodies to create the effect of "molten glass". Compound of frit: CAS N°. 65997-18-4.
Application	Due to its high expansion coefficient =101,1x10 ⁻⁷ °C ⁻¹ , this collection can also be used on white clay bodies at low temperatures, as a conventional cracked glaze, fired at 980°C. The glaze may be applied by dipping, spray gun, slip-trail application or by bell application (industrial level). Temperature range: Vertical application at 930 - 1020°C, contained pieces. Application on a flat surface/gentle inclination at 980 - 1150°C.

2. CHEMICAL COMPOSITION

Metal oxides with concentrations less than 0.05% have not been determined.

Li ₂ O	ZnO	1-5	Cr ₂ O ₃	CaF ₂		
Na ₂ O	10-20	MnO	B ₂ O ₃	10-20	Bi ₂ O ₃	Co-Si
K ₂ O	1-5	CdO	V ₂ O ₅		P ₂ O ₅	MEDIUM
MgO	0-0.5	CoO	MnO ₂		BeO	LOI
CaO	1-5	NiO	SiO ₂	40-80	CeO ₂	0.5-1
SrO	0.5-1	Al ₂ O ₃	TiO ₂	0-0.5	CuO	1-5
BaO	1-5	Fe ₂ O ₃	ZrO ₂	0-0.5	Pr ₂ O ₃	
PbO		Sb ₂ O ₃	SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	White powder
Color(fired)	Royal blue

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 39.54	a: -1.1	b: -30.99
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5. DILATOMETRY

* Data obtained with dilatometer BÄHR mod. DIL 801 L 10⁻⁷ C⁻¹

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T ^a Transformation	T ^a Softening	Melting point
102.12	102.775	121.79		487.3 C°	577 C°	>750 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
67.6	35.3	16.9	3.1	0.0	17.3

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Not recommended for food use due to its craquelé effect that does not give the piece its total tightness

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)



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