

DATA SHEET

20671104 ESMALTE GRES O-10111 MARRON POLVO

18/11/2025 v1.3

1. PRODUCT IDENTIFICATION

Description	BROWN GLAZE. It belongs to high temperature glazes, with high rutile content. The result can be opaque matte. The final effect can be different depending on firing temperature, coat of glaze and kind of biscuit. The result will vary depending on the used body, temperature, cycle and atmosphere. Compound of frit: CAS N°. 65997-18-4.
Application	They can be applied by brush, spraying or dipping in single- and double-fired. For one firing it's advisable the addition of Monocol V. Temperature range 1240°C - 1340°C, recommended temperature 1260°C. It is advisable to test at extreme temperatures.

2. CHEMICAL COMPOSITION

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

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Greenish powder
Color(fired)	Brown

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 36.3	a: 4.3	b: 5.7
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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
76.0	76.4	84.6	92.5	710 C°	883 C°	>1150 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
54.4	23.1	9.1	1.0	0.0	11.6

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Formulated without lead and cadmium.

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



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