

DATA SHEET

20776104 ESM. GRES O-10564 LUST. COBRE POLVO

25/11/2025 v1.2

1. PRODUCT IDENTIFICATION

Description COPPER GLAZE. It belongs to high temperature glazes. 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		CaF ₂			
Na ₂ O	5-10	MnO		B ₂ O ₃		Bi ₂ O ₃		LOI	5-10
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅	10-20		
MgO	0.5-1	CoO		MnO ₂		BeO			
CaO	1-5	NiO		SiO ₂	20-40	CeO ₂			
SrO		Al ₂ O ₃	10-20	TiO ₂		CuO			
BaO		Fe ₂ O ₃	10-20	ZrO ₂		Pr ₂ O ₃			
PbO		Sb ₂ O ₃		SnO ₂					

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Beige powder
Color(fired) Copper

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 58.7 a: 3.8 b: -0.8

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
106.63	107.19	102.27	174.66	490.3 C°	789 C°	>1000 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
71.4	50.2	38.5	21.0	5.7	25.5

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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