

DATA SHEET

42104104 VITRIF. VA-COBRE S/Pb POLVO

05/06/2025 v1.1

1. PRODUCT IDENTIFICATION

Description ONGLAZE COLOR COPPER. It is part of the onglaze colors for decorating on porcelain or glazed earthenware (Third fire). Compound of frit: CAS N°. 65997-18-4.

Application They admit the application systems: paintbrush, spraying and serigraphy. The following mediums are adapted for the preparation of the colors : Balsam of Copaiba, Essence of Turpentine, SEROGRAF, SEROIL. The appropriate firing condition is between 750°C-850°C, recommended 820°C.

2. CHEMICAL COMPOSITION

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

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Pink powder
Color(fired) Copper

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 61.66 a: 29.74 b: 27.63

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 C°	T ^a Softening C°	Melting point >600 C°
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6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
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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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