

DATA SHEET

42104004 VITRIF. VA-ORO S/Pb POLVO

02/06/2025 v1.0

1. PRODUCT IDENTIFICATION

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect **Beige powder**
Color(fired) **Gold**

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: **81.01** a: **-0.11** b: **3.18**

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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