

# DATA SHEET

10601707 'ESMALTE G TRANSP. ATOMIZADO

05/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

**Description** Transparent Bright lead Glaze suitable for use on white, red and colored body. It can be used as flux adding to colours for brush and serygraphy decoration obtaining excellent results with Cobalt and Ca-Cr-Sn pigments. It can be used as flux to reduce melting point if necessary. Compound of frit: CAS N°. 65997-18-4.

**Application** It can be applied: dipping, spraying, any mechanical application method. It can be colored with our "P" Series Pigments and Natural Oxydes obtaining a high performance color. The "CD Series" and "Decor Series" of underglaze colors can be used for brush or screen printing decoration. The recommended temperature varies from 940°-1020°C.

## 2. CHEMICAL COMPOSITION

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

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

## 3 PHYSICAL-CHEMICAL PROPERTIES

**Aspect** White powder  
**Color(fired)** Transparent Bright

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: n.a                      a: n.a                      b: n.a

## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L                      10<sup>-7</sup> C<sup>-1</sup>

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation	T <sup>a</sup> Softening	Melting point
71.2	72.0	86.8		512 C°	579 C°	>800 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

\* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
57.2	23.1	8.9	0.9	0.0	12.3

## 7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Compound of lead frit. To certify their food use, the final pieces must be submitted to lead migration test by an accredited laboratory.

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

