

# DATA SHEET

11106107 ESMALTE PR-14 TRANSP. ATOMIZADO

17/02/2025 v1.3

## 1. PRODUCT IDENTIFICATION

**Description** Low TEC glossy transparent glaze. Recommended for special low TEC bodies. It is suitable for adding to glazes, preventing them from cracking. Compound of frit: CAS N°. 65997-18-4.

**Application** It can be applied by dipping, spraying, and any mechanical application method. It can be coloured with our Pigments "P" Series. It requires a previous test at temperature and body to be used. The recommended temperature varies from 1100°C-1260°C.

## 2. CHEMICAL COMPOSITION

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

Li <sub>2</sub> O	0-0.5	ZnO		Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>	
Na <sub>2</sub> O		MnO		B <sub>2</sub> O <sub>3</sub>	20-40	Bi <sub>2</sub> O <sub>3</sub>	MEDIUM 0-0.5
K <sub>2</sub> O	0-0.5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	LOI 0.5-1
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	
CaO	1-5	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>	
SrO		Al <sub>2</sub> O <sub>3</sub>	10-20	TiO <sub>2</sub>	0-0.5	CuO	
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>		Pr <sub>2</sub> O <sub>3</sub>	
PbO		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
42.1	41	40.6	40.1	618 C°	726 C°	>900 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
60	26.2	10.4	1.2	0	13.6

## 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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