

# DATA SHEET

22129507 ESMALTE M-5148 BLANCO OPACO ATOMIZA

17/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

**Description** White and Glossy Glaze suitable for use on terracotta bodies because its high TEC. It can be used as corrector of TEC in case of shivering of white glazes. Compound of frit: CAS N°. 65997-18-4.

**Application** It can be applied :dipping, spraying, any mechanical method of application.It can be coloured with our Pigments "P" Series, keeping in mind it contains Zr and Zn. It is recommended to make previous test for colouring with natural oxides and firing cycles over 1080 °C. "CD Series" of On-glaze colours can be used for decoration. The recommended temperature varies from 980°C-1150°C.

## 2. CHEMICAL COMPOSITION

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

Li <sub>2</sub> O		ZnO	5-10	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>	10-20	Bi <sub>2</sub> O <sub>3</sub>	MEDIUM 0-0.5
K <sub>2</sub> O	1-5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	LOI 1-5
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>	5-10	TiO <sub>2</sub>	0-0.5	CuO	
BaO		Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>	5-10	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)** White 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
71.1	71.8	78.9	176.4	580 C°	679 C°	>900 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
62.4	33	16.8	3.8	0.1	15.4

## 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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