

# DATA SHEET

22289007 ESMALTE 5894 BLANCO ANT. S/Pb ATOMI

17/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

Description	White and Glossy Semi-opaque Glaze suitable for use on white and red body, pottery and colored body. Old White result depending on the type of body and thickness of application. 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	5-10	ZnO	5-10	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>	5-10	Bi <sub>2</sub> O <sub>3</sub>	HfO <sub>2</sub> 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 0.5-1
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	Zr-Pr-Si 0-0.5
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>	0-0.5	CuO	
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>	10-20	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 opaque

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: n.a	a: n.a	b: n.a
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## 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
61.1	60.5	66.8	128.7	574 C°	658 C°	>800 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
60.2	30.8	15.4	3.7	0.2	14.3

## 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)