

DATA SHEET

10113507 ESMALTE PR-500 TR. S/Pb. ATOMIZADO

17/02/2025 v1.4

1. PRODUCT IDENTIFICATION

Description Transparent Bright Glaze suitable for use on white, red and colored body. It can be used on ceramic bodies for culinary purpose because its low TEC. It can be used for single firing. Compound of frit: CAS N°. 65997-18-4.

Application It can be applied :dipping, spraying, any mechanical method of application.It can be colored with our Pigments "P" Series obtaining a high performance colour . It is recommended to make previous test for firing cycles over 1020°C . "CD Series" of On-glaze colours can be used for decoration. The recommended temperature varies from 930-1050°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		MnO		B ₂ O ₃	20-40	Bi ₂ O ₃	LOI 0.5-1
K ₂ O	0-0.5	CdO		V ₂ O ₅		P ₂ O ₅	
MgO	0-0.5	CoO		MnO ₂		BeO	
CaO	1-5	NiO		SiO ₂	40-80	CeO ₂	
SrO	0.5-1	Al ₂ O ₃	10-20	TiO ₂	0-0.5	CuO	
BaO	1-5	Fe ₂ O ₃	0-0.5	ZrO ₂		Pr ₂ O ₃	
PbO		Sb ₂ O ₃		SnO ₂			

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 10⁻⁷ C⁻¹

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T ^a Transformation	T ^a Softening	Melting point
52.5	51.3	55.1	169.7	559 C°	641 C°	>600 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
61.4	29.2	12.7	2.2	0	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)

