DATA SHEET

13101407 'ESMALTE PR-O TRANSP. ATOMIZADO 05/02/2025 v1.7

1. PRODUCT IDENTIFICATION

Description: Transparent Bright lead Glaze special for use on traditional pottery. Adapted for use in single firing. Compound of frit: CAS Nº. 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. High perfomance of color over Colored Engobes. The recommended temperature varies from 940º-980ºC.

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

Li_2O		ZnO		Cr_2O_3		CaF_2			
Na_2O	0-0.5	MnO		B_2O_3		Bi_2O_3		MEDIUM	0-0.5
K_2O	0.5-1	CdO		V_2O_5		P_2O_5		LOI	0.5-1
MgO	0-0.5	CoO		MnO_2		BeO			
CaO	0-0.5	NiO		SiO_2	20-40	CeO_2			
SrO		Al_2O_3	1-5	TiO_2	0-0.5	CuO			
BaO	0-0.5	Fe_2O_3	0-0.5	ZrO_2		Pr_2O_3			
PbO	40-80	Sb_2O_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:

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°	Tª Transformation	Tª Softening	Melting point
67.3	66.0	71.1		517 Cº	580 Cº	>875 Cº

6. GRANULOMETRIC DISTRIBUTION (WET WAY) * Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
67.8	36.6	19.2	5.2	0.3	17.6

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)

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