

DATA SHEET

11106907 ESMALTE 5005 TRANSP. ATOMIZADO

05/02/2025 v1.3

1. PRODUCT IDENTIFICATION

Description Transparent Bright lead Glaze suitable for use on white body over decoration. 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" and "Decor Series" of On-glaze colours can be used for decoration. The recommended temperature varies from 980°-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		Al-Co-Zn	0-0.5
Na ₂ O		MnO		B ₂ O ₃	5-10	Bi ₂ O ₃		MEDIUM	0-0.5
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅		LOI	0.5-1
MgO	0-0.5	CoO		MnO ₂		BeO			
CaO	5-10	NiO		SiO ₂	40-80	CeO ₂			
SrO		Al ₂ O ₃	10-20	TiO ₂	0-0.5	CuO			
BaO		Fe ₂ O ₃	0-0.5	ZrO ₂		Pr ₂ O ₃			
PbO	5-10	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
64.8	63.9	64.9	144.6	574 C°	651 C°	>850 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
64.0	30.5	13.2	1.8	0.0	15.3

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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