

DATA SHEET

50101904 'MONOSILICATO DE PLOMO POLVO

17/01/2025 v1.2

1. PRODUCT IDENTIFICATION

Description	Transparent and very bright basis which contains the frit with the most quantity of lead. It can be used as corrector of melting viscosity point and as an additive to reduce the melting point. Compound of frit: CAS N°. 65997-18-4.
Application	It can be applied: immersion, spraying, any mechanical application method. It can be colored with our "P" Series pigments or Natural Oxydes . Adapted for single firing. The recommended temperature varies from 800°-950°C.

2. CHEMICAL COMPOSITION

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

Li ₂ O	0-0.5	ZnO	Cr ₂ O ₃	CaF ₂
Na ₂ O		MnO	B ₂ O ₃	Bi ₂ O ₃
K ₂ O	0-0.5	CdO	V ₂ O ₅	P ₂ O ₅
MgO	0-0.5	CoO	MnO ₂	BeO
CaO	0-0.5	NiO	SiO ₂	20-40
SrO		Al ₂ O ₃	0-0.5	TiO ₂
BaO		Fe ₂ O ₃		ZrO ₂
PbO	40-80	Sb ₂ O ₃		SnO ₂
				Pr ₂ O ₃

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
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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
87.8	87.7	129.2		459 C°	508 C°	>725 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
50.9	15.1	4.1	0.0	0.0	10.2

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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