

DATA SHEET

12105907 ESMALTE PR-1000/N TR.CRAQ.ATOMIZADO

17/02/2025 v1.3

1. PRODUCT IDENTIFICATION

Description Transparent Boron - Calcium glaze Compound of frit: CAS N°. 65997-18-4.

Application For using in formulations to lower the melting point or add boron to the formula. Flux base for engobes with low expansion coefficient. The recommended temperature varies from 850°C-1000°C.

2. CHEMICAL COMPOSITION

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

Li ₂ O	5-10	ZnO	Cr ₂ O ₃	CaF ₂		
Na ₂ O		MnO	B ₂ O ₃	Bi ₂ O ₃	MEDIUM	0-0.5
K ₂ O	0-0.5	CdO	V ₂ O ₅	P ₂ O ₅	LOI	1-5
MgO		CoO	MnO ₂	BeO		
CaO	10-20	NiO	SiO ₂	CeO ₂		
SrO		Al ₂ O ₃	TiO ₂	CuO		
BaO		Fe ₂ O ₃	ZrO ₂	Pr ₂ O ₃		
PbO		Sb ₂ O ₃	SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect White powder
Color(fired) Transparent Crackled

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°	T ^a Transformation	T ^a Softening	Melting point	
86	87.6	99.7	211.3	561 C°	633 C°	>875 C°	

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
67.6	39.3	21.9	9	0.6	19.3

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Not recommended for food use due to its craquelé effect that does not give the piece its total tightness

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)



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