

DATA SHEET

22270207 ESMALTE GRES O-301 TRANSP. ATOMIZAD

16/12/2025 v1.4

1. PRODUCT IDENTIFICATION

Description Shiny transparent (not contains Zn).
It belongs to the collection of high temperature bases. Compound of frit: CAS N°. 65997-18-4.

Application The bases can be coloured natural and synthetic oxides. It admits either once firing. It can be applied over: porcelain, stoneware and over any of their varieties. The range for temperatures varies from 1200 to 1320°C.

2. CHEMICAL COMPOSITION

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

Li ₂ O	ZnO	Cr ₂ O ₃	CaF ₂		
Na ₂ O 1-5	MnO	B ₂ O ₃	Bi ₂ O ₃	MEDIUM	0-0.5
K ₂ O 1-5	CdO	V ₂ O ₅	P ₂ O ₅	LOI	10-20
MgO 0-0.5	CoO	MnO ₂	BeO		
CaO 5-10	NiO	SiO ₂ 40-80	CeO ₂		
SrO 5-10	Al ₂ O ₃ 10-20	TiO ₂ 0-0.5	CuO		
BaO 0-0.5	Fe ₂ O ₃ 0-0.5	ZrO ₂	Pr ₂ O ₃		
PbO		SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect White powder
Color(fired) Transparent

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
78.8	77.6	87.6	114.6	588 C°	866 C°	>1100 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
48.8	18.1	6.8	0.9	0.1	9.7

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)

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