DATA SHEET

22410107 ESMALTE GE-400 TRANSP. S/Pb. ATOMIZ 29/10/2025 v1.5

1. PRODUCT IDENTIFICATION

Description

TRANSPARENT GLAZE. It belongs to the GROSSO SPESSORE GLAZES, designed to be applied over stoneware bodies to create the effect of "molten glass". Compound of frit: CAS Nº. 65997-18-4.

Application

Due to its high expansion coefficient =101,1x10^{-7} $ºC^{-1}$, this collection can also be used on white clay bodies at low temperatures, as a conventional crackled glaze, fired at 980ºC. The glaze may be applied by dipping, spray gun, slip-trail application or by bell application (industrial level). Temperature range: Vertical application at 930 - 1020ºC, contained pieces. Application on a flat surface/gentle inclination at 980 - 1150ºC.

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

Li_2O		ZnO	1-5	Cr_2O_3		CaF_2					
Na_2O	10-20	MnO		B_2O_3	10-20	Bi_2O_3		MEDIUM	0-0.5		
K_2O	1-5	CdO		V_2O_5		P_2O_5		LOI	0.5-1		
MgO	0-0.5	CoO		MnO_2		BeO					
CaO	1-5	NiO		SiO_2	40-80	CeO_2					
SrO	0.5-1	Al_2O_3	5-10	TiO_2	0-0.5	CuO					
BaO	1-5	Fe_2O_3	0-0.5	ZrO_2	0-0.5	Pr_2O_3					
PbO				SnO_2							

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	White powder
Color(fired)	Transparent

4. COLORIMETRY * By Minolta ChromaControl (S)

L: 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
102.12	102.775	121.79		487.3 Cº	577 Cº	>750 Cº

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
67.6	35.3	16.9	3.1	0.0	17.3

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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