

DATA SHEET

22410604 ESMALTE GE-405 MARRON S/Pb. POLVO

29/10/2025 v1.5

1. PRODUCT IDENTIFICATION

Description BROWN 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 N°. 65997-18-4.

Application Due to its high expansion coefficient $=101,1 \times 10^{-7} \text{ }^{\circ}\text{C}^{-1}$, this collection can also be used on white clay bodies at low temperatures, as a conventional cracked glaze, fired at 980°C. The glaze may be applied by dipping, spray gun, slip-trail application or by bell application (industrial level). Temperature range: Vertical application at 930 - 1020°C, contained pieces. Application on a flat surface/gentle inclination at 980 - 1150°C.

2. CHEMICAL COMPOSITION

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

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Grey powder
Color(fired) Brown

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 45.43 a: 2.29 b: 11.94

5. DILATOMETRY

* Data obtained with dilatometer BÄHR mod. DIL 801 L $10^{-7} \text{ }^{\circ}\text{C}^{-1}$

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T ^a Transformation	T ^a Softening	Melting point
102.12	102.775	121.79		487.3 C°	577 C°	>750 C°

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)



C/ Aviación 44, 46940 Manises, Valencia - España
+34961545588
admon@prodesco.es
www.prodesco.es

The provide data have been obtained under the specific conditions of the quality control process of PRODESCO S.L. being for informational purposes, not assuming any contractual relationship.