DATA SHEET

20676404 ESMALTE GRES O-10540 NEGRO BR. POLV 18/11/2025 v1.2

1. PRODUCT IDENTIFICATION

Description BLACK GLAZE. It belongs to high temperature glazes. Compound of frit: CAS Nº. 65997-18-4.

Application They can be applied by brush, spraying or dipping in single- and double-fired. For one firing it's advisable the addition of Monocol V. Temperature range 1240°C - 1340°C, recommended temperature 1260°C. It is advisable to test at extreme temperatures.

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

Li_2O	0-0.5	ZnO		Cr_2O_3		CaF_2					
Na_2O	1-5	MnO		B_2O_3		Bi_2O_3				Co-Fe-Cr	1-5
K_2O	1-5	CdO		V_2O_5		P_2O_5	0-0.5			Cr-Co-Fe	1-5
MgO	0-0.5	CoO		MnO_2		BeO				LOI	5-10
CaO	10-20	NiO		SiO_2	40-80	CeO_2					
SrO		Al_2O_3	10-20	TiO_2	0-0.5	CuO					
BaO		Fe_2O_3	0-0.5	ZrO_2		Pr_2O_3					
PbO		Sb_2O_3		SnO_2							

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Grey powder
Color(fired)	Black

4. COLORIMETRY * By Minolta ChromaControl (S)

L: 27.0 a: -0.1 b: -0.9

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
66.1	67.1	75.9	96.1	689.0 Cº	851.0 Cº	>1200 Cº

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
49.1	20.6	8.7	1.5	0.1	9.6

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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