DATA SHEET

20776304 'ESMALTE GRES O-10566 ORO BRILLO POL 25/11/2025 v1.2

1. PRODUCT IDENTIFICATION

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Brown powder
Color(fired)	Gold

4. COLORIMETRY * By Minolta ChromaControl (S)

L: 53.9 a: 7.7 b: 15.7

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
69.26	68.15	95.61	145.09	475.6 Cº	793 Cº	>925 Cº

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

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
57.4	34.9	22.0	7.4	0.4	13.6

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Compound of lead frit. To certify their food use, the final pieces must be submitted to lead migration test by an accredited laboratory.

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

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