DATA SHEET

20674504 'ESM GRES O-10485 TR. BRIL PO *25Kg 25/11/2025 v1.1

1. PRODUCT IDENTIFICATION

Description

It belongs to the reactive glazes for high temperature with high zinc content. The final effect can be different depending on firing temperature, coat of glaze and kind of biscuit. The result will vary depending on the used body, temperature, cycle and atmosphere. Compound of frit: CAS Nº. 65997-18-4.

Application

It can be colored with natural metal oxides and some calcined colorants from the "P" Series compatible with zinc oxide. 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 1200°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	10-20	Cr_2O_3		CaF_2			
Na_2O	1-5	MnO		B_2O_3		Bi_2O_3		LOI	5-10
K_2O	1-5	CdO		V_2O_5		P_2O_5			
MgO	0-0.5	CoO		MnO_2		BeO			
CaO	5-10	NiO		SiO_2	40-80	CeO_2			
SrO		Al_2O_3	5-10	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	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
62.9	62.6	69.2	71.7	548.1 Cº	885.0 Cº	>1125 Cº

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
48.4	21.1	9.1	1.5	0.0	9.5

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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