

DATA SHEET

20775107 ESM. GRES O-7003 OP. MATE JASPE ATO

05/08/2025 v1.3

1. PRODUCT IDENTIFICATION

Description	It belongs to the reactive bases for high temperature with high rutile content. The result can be opaque matte with light brown or rose-colored tones depending on the interaction with the used body, stoneware or porcelain. 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 N°. 65997-18-4.
Application	It can be colored with natural metal oxides and some calcined colorants from the "P" Series to achieve color effects with gradients and irregular textures. 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 ₂ O	1-5	ZnO		Cr ₂ O ₃		CaF ₂	10-20		
Na ₂ O		MnO		B ₂ O ₃		Bi ₂ O ₃		LOI	5-10
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅			
MgO	0-0.5	CoO		MnO ₂		BeO			
CaO	5-10	NiO		SiO ₂	40-80	CeO ₂			
SrO		Al ₂ O ₃	5-10	TiO ₂	10-20	CuO			
BaO		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	White powder
Color(fired)	Jasper mat

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: n.a	a: n.a	b: n.a
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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°	T ^a Transformation	T ^a Softening	Melting point
76.0	76.4	84.6	92.5	710 C°	883 C°	>1150 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
54.4	23.1	9.1	1.0	0.0	11.6

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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