

DATA SHEET

41151904 ESM. EMSP-19 ARENA MATE POLVO

26/02/2025 v1.4

1. PRODUCT IDENTIFICATION

Description MAT SAND GLAZE.It belongs to the "EMSP" series recommended for ceramicware. Compound of frit:
CAS N°. 65997-18-4.

Application The glazes can be decorated by the coulors of serie CD for application over white or red bodies. The firing recommended temperature varies from 980 °C to 1080°C. They can be used at higher temperatures obtaining the same or even other finishes.

2. CHEMICAL COMPOSITION

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

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Beige powder
Color(fired) Sand

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 71.15 a: 2.07 b: 13.08

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
69.8	68.5	80.6	183.5	561 C°	650 C°	>875 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
65.7	34.1	17.1	3.9	0	16.4

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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