

DATA SHEET

41150404 ESM. EMSP-04 NARANJA MATE POLVO

26/02/2025 v1.4

1. PRODUCT IDENTIFICATION

Description MAT ORANGE 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	1-5	MnO		B ₂ O ₃	1-5	Bi ₂ O ₃		Cd(S,Se) en ZrSiO ₄ 5-10
K ₂ O	0-0.5	CdO		V ₂ O ₅		P ₂ O ₅	HfO ₂	0-0.5
MgO	0-0.5	CoO		MnO ₂		BeO	MEDIUM	0-0.5
CaO	1-5	NiO		SiO ₂	20-40	CeO ₂		
SrO		Al ₂ O ₃	1-5	TiO ₂	0-0.5	CuO	LOI	0.5-1
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 Orange powder
Color(fired) Orange

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 65.22 a: 41.43 b: 43.2

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
69.8	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

Contains inclusion cadmium pigment. 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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