

# DATA SHEET

41152104 ESM. EMSP-21 TOMATE MATE POLVO

26/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

Description MAT TOMATO RED 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 <sub>2</sub> O	1-5	ZnO	5-10	Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>		
Na <sub>2</sub> O		MnO		B <sub>2</sub> O <sub>3</sub>	1-5	Bi <sub>2</sub> O <sub>3</sub>		Cd(S,Se) en ZrSiO <sub>4</sub> 10-20
K <sub>2</sub> O	0-0.5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	HfO <sub>2</sub>	0-0.5
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	MEDIUM	
CaO	1-5	NiO		SiO <sub>2</sub>	20-40	CeO <sub>2</sub>		
SrO		Al <sub>2</sub> O <sub>3</sub>	1-5	TiO <sub>2</sub>	0-0.5	CuO	LOI	0-0.5
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>	1-5	Pr <sub>2</sub> O <sub>3</sub>		
PbO		Sb <sub>2</sub> O <sub>3</sub>		SnO <sub>2</sub>				

## 3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Red powder  
Color(fired) Tomato red

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 43.29 a: 38.56 b: 18.18

## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L 10<sup>-7</sup> C<sup>-1</sup>

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation	T <sup>a</sup> Softening	Melting point
65.65	65.35	76.55	171.75	543 C°	757 C°	>875 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

\* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
62.3	30.85	14.85	3.1	0	14.85

## 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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