

# DATA SHEET

41152004 ESM. EMSP-20 CHOCOLATE MATE POLV

26/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

Description MAT CHOCOLATE 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		ZnO	10-20	Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>			
Na <sub>2</sub> O	1-5	MnO		B <sub>2</sub> O <sub>3</sub>	5-10	Bi <sub>2</sub> O <sub>3</sub>		Co-Fe-Cr	0.5-1
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>		Cr-Fe-Zn-Co	1-5
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO		HfO <sub>2</sub>	0-0.5
CaO	1-5	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>		MEDIUM	0-0.5
SrO		Al <sub>2</sub> O <sub>3</sub>	5-10	TiO <sub>2</sub>	0-0.5	CuO		LOI	1-5
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>	5-10	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 Brown powder  
Color(fired) Chocolate

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 38.95 a: 4.94 b: 3.34

## 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
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)



C/ Aviación 44, 46940 Manises, Valencia - España  
+34961545588  
admon@prodesco.es  
www.prodesco.es

The provide data have been obtained under the specific conditions of the quality control process of PRODESCO S.L. being for informational purposes, not assuming any contractual relationship.