

DATA SHEET

41131104 ESM. EOSP-11 OPACO CHOCOLATE POLVO

22/10/2024 v1.3

1. PRODUCT IDENTIFICATION

Description BRIGHT OPAQUE CHOCOLATE GLAZE. It belongs to the "EOSP" series, recommended for ceramicware.
Compound of frit: CAS N°. 65997-18-4.

Application The glaze can be applied by dipping, brush, screen printing or spray and can be used for decoration of white body or red clay. The firing recommended temperature varies from 980 °C to 1150°C. They can be used at higher temperatures obtaining the same or even other finishes, wich will depend on the body.

2. CHEMICAL COMPOSITION

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

Li ₂ O	1-5	ZnO	1-5	Cr ₂ O ₃		CaF ₂	
Na ₂ O		MnO		B ₂ O ₃	10-20	Bi ₂ O ₃	Fe-Cr-Zn 5-10
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅	LOI 0-0.5
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	0-0.5	CuO	
BaO	0-0.5	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 **Brown powder**
Color(fired) **Bright chocolate brown**

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 40.1 a: 12.7 b: 6.9

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
59.95	59.43	63.04	99.04	592 C°	668 C°	>850 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
60	30	13	2	0	15.5

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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