

DATA SHEET

41110104 ENGOBE ENSP-03 NEGRO S/PB POLVO

29/01/2025 v1.3

1. PRODUCT IDENTIFICATION

Description BLACK ENGOBE. It belongs to the "ENSP" series (COLOURED ENGOBE). Compound of frit: CAS N°. 65997-18-4.

Application Can be used for decoration of white body or red bodies. The temperature range is from 930 to 1050 ° C, obtaining the maximum colour development at 980 ° C. They can be used at higher temperatures obtaining other finishes

2. CHEMICAL COMPOSITION

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

Li ₂ O		ZnO		Cr ₂ O ₃		CaF ₂	
Na ₂ O	1-5	MnO		B ₂ O ₃	5-10	Bi ₂ O ₃	Co-Fe-Cr 10-20
K ₂ O	1-5	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	1-5	NiO		SiO ₂	40-80	CeO ₂	
SrO		Al ₂ O ₃	10-20	TiO ₂	0-0.5	CuO	
BaO	0.5-1	Fe ₂ O ₃	0-0.5	ZrO ₂		Pr ₂ O ₃	
PbO		Sb ₂ O ₃		SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect **Black powder**
Color(fired) **Black**

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 28.49 a: 0.33 b: 0.1

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
50.4	49.3	64	98.4	538 C°	885 C°	>980 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
34.8	11.9	5.1	1.1	0	5.9

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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