

DATA SHEET

22308904 ENGOBE EASP-16 NEGRO POLVO

10/10/2024 v1.3

1. PRODUCT IDENTIFICATION

Description BLACK ENGOBE FOR HIGH TEMPERATURE. High Temperature Engobes " EASP" series is a collection of coloured engobes designed for glaze and decorate pieces of stoneware or porcelain.

Application They can be applied by brush, aerograph or dipping. If they are used in single firing it is advisable to add 5% of Monocol V for better grip engobe to the piece. The temperature range is from 980 to 1280 ° C, obtaining the maximum colour development at 1280 ° C.

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		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	5-10
CaO	0-0.5	NiO		SiO ₂	40-80	CeO ₂			
SrO		Al ₂ O ₃	10-20	TiO ₂	0.5-1	CuO			
BaO		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 Grey powder
Color(fired) Black

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 33.38 a: 0.41 b: -0.07

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
55.9	56	63.4	85.5	524 C°	883 C°	>900 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
41.9	17.53	8.5	2.1	0.01	7.6

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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