

# DATA SHEET

22308704      ENGOBE EASP-13 AZUL MEDIO POLVO

10/10/2024    v1.3

## 1. PRODUCT IDENTIFICATION

**Description**      MEDIUM BLUE 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 <sub>2</sub> O		ZnO		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>		Bi <sub>2</sub> O <sub>3</sub>	MEDIUM 0-0.5
K <sub>2</sub> O	1-5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	LOI 5-10
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	Zr-V-Pr-Si 10-20
CaO	0-0.5	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>	
SrO		Al <sub>2</sub> O <sub>3</sub>	10-20	TiO <sub>2</sub>	0.5-1	CuO	
BaO		Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>		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**      Blue powder  
**Color(fired)**      Medium blue.

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 56.04      a: -12.84      b: -17.86

## 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°	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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