

DATA SHEET

41112704 ENGOBE ENSP-28 CALABAZA S/PB POLVO

29/01/2025 v1.4

1. PRODUCT IDENTIFICATION

Description PUMPKIN 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	1-5	ZnO	0.5-1	Cr ₂ O ₃		CaF ₂	
Na ₂ O		MnO		B ₂ O ₃	5-10	Bi ₂ O ₃	Cd(S,Se) en ZrSiO ₄ 10-20
K ₂ O	0-0.5	CdO		V ₂ O ₅		P ₂ O ₅	MEDIUM 0-0.5
MgO	5-10	CoO		MnO ₂		BeO	LOI 1-5
CaO	5-10	NiO		SiO ₂	40-80	CeO ₂	
SrO	0-0.5	Al ₂ O ₃	5-10	TiO ₂	0-0.5	CuO	
BaO	1-5	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 Dark Yellow Powder
Color(fired) Pumpkin

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 67.6 a: 23.87 b: 55.25

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

Contains inclusion cadmium pigment. To certify their food use, the final pieces must be submitted to lead migration test by an accredited laboratory.

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)



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