

DATA SHEET

22409104 ESMALTE EECS-05 ROJO OSCURO S/Pb PO

10/03/2025 v1.5

1. PRODUCT IDENTIFICATION

Description	DARK RED GLAZE EFFECT CADMIUM-SELENIUM GLAZES. Series of coloured glazes with great intensity and specific formulation for this effect.They are suitable for the decoration of ceramicware, bearing in mind their high Thermal Expansion Coefficient for the body selection in order to avoid crackling. Compound of frit: CAS N°. 65997-18-4.
Application	They can be mixed with the other glazes from the same series. They require a high coat and can be applied by dumping, spraying and with a slip trailer. They can be used on white and red bodies. The recommended temperature varies from 980°-1080°C.

2. CHEMICAL COMPOSITION

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

Li ₂ O	10-20	ZnO	1-5	Cr ₂ O ₃		CaF ₂	
Na ₂ O		MnO		B ₂ O ₃	10-20	Bi ₂ O ₃	Cd(S,Se) en ZrSiO ₄ 10-20
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅	Co-Si 0-0.5
MgO	0-0.5	CoO		MnO ₂		BeO	LOI 0.5-1
CaO	1-5	NiO		SiO ₂	40-80	CeO ₂	
SrO	0.5-1	Al ₂ O ₃	5-10	TiO ₂	0-0.5	CuO	
BaO	1-5	Fe ₂ O ₃	0-0.5	ZrO ₂	0-0.5	Pr ₂ O ₃	
PbO		Sb ₂ O ₃		SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Red powder
Color(fired)	Dark Red

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 21	a: 44	b: 30
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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
97.9	98.9	117.1	281.2	513 C°	584 C°	>750 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
63.2	30.5	13.3	1.7	0	15.1

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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