DATA SHEET

22409904 ESMALTE EECS-13 ANTRACITA S/Pb POLV 10/03/2025 v1.6

1. PRODUCT IDENTIFICATION

Description

ANTHRACITE 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 Nº. 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 980º-1080ºC.

2. CHEMICAL COMPOSITION

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

Li_2O		ZnO	1-5	Cr_2O_3		CaF_2			
Na_2O	10-20	MnO		B_2O_3	10-20	Bi_2O_3		Cd(S,Se) en $ZrSiO_4$	5-10
K_2O	1-5	CdO		V_2O_5		P_2O_5		Co-Si	1-5
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_2O_3	5-10	TiO_2	0-0.5	CuO			
BaO	1-5	Fe_2O_3	0-0.5	ZrO_2	0-0.5	Pr_2O_3			
PbO		Sb_2O_3		SnO_2					

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Blue grey
Color(fired)	Anthracite

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 5 a: -3 b: -4

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 Cº	584 Cº	>750 Cº

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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