DATA SHEET

22409504 ESMALTE EECS-09 VERDE OLIVA S/Pb PO 10/03/2025 v1.6

1. PRODUCT IDENTIFICATION

Description

OLIVE GREEN 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	
K_2O	1-5	CdO		V_2O_5		P_2O_5	
MgO	0-0.5	CoO		MnO_2		BeO	
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			

Cd(S,Se) en $ZrSiO_4$	10-20
LOI	0.5-1

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Green powder
Color(fired)	Olive green

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 45 a: -15 b: 26

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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