

DATA SHEET

41103304 COLORANTE CD-11 NEGRO POLVO

16/04/2025 v1.4

1. PRODUCT IDENTIFICATION

Description DECORATION COLOUR BLACK with flux. Compound of frit: CAS N°. 65997-18-4.

Application For its application, it is recommended to add water until the required consistency for application by brush. For decoration over or under transparent glaze as over Opaque Glaze. Firing temperature ranges between 980-1280°C . With the appropriate medium, this decorative colour can be used to decorate the third fire both pottery as porcelain. The firing temperature in this case is the 980 ° C

2. CHEMICAL COMPOSITION

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

Li ₂ O		ZnO		Cr ₂ O ₃		CaF ₂	
Na ₂ O	1-5	MnO		B ₂ O ₃	5-10	Bi ₂ O ₃	Co-Fe-Cr 20-40
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅	LOI 0-0.5
MgO	1-5	CoO		MnO ₂		BeO	
CaO	1-5	NiO		SiO ₂	20-40	CeO ₂	
SrO		Al ₂ O ₃	5-10	TiO ₂		CuO	
BaO	0.5-1	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 Black powder
Color(fired) Black

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 15.5 a: 0.6 b: 0.2

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
70.8	70.6	74.4	111.8	593 C°	681 C°	>850 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
58	23.7	9.7	1.1	0	12.7

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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