

DATA SHEET

22613904 ESM. 5942 NEGRO CRAQ. S/Pb POLVO

14/01/2026 v1.4

1. PRODUCT IDENTIFICATION

Description BLACK CRACKLED GLAZE
It belongs to the Serie "CRACKLED", shiny, opaque and crackled glazes. We recommend also employing the Raku firing technique with these glazes, since they maintain a stable colour, therefore contrasting with the colour of the fired clay in reduction atmosphere. Formulated without lead and cadmium. Compound of frit: CAS N°. 65997-18-4.

Application The glaze can be used for white, red body or earthenware (RAKU). According to the coefficient of expansion of the chosen clay body, the crackled effect could be greater or smaller, especially for clay bodies with a higher coefficient where the glaze does not reach the cracking point. They can be glazed by dipping, but we recommend using a spray gun.
Firing temperature range 930°C - 1020°C, recommended 980°C. Once the piece is fired it is recommended to wait 24 h and apply with a cloth "Antique Brown Patina" to enhance the crackle effect.

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 10-20	MnO	B ₂ O ₃ 5-10	Bi ₂ O ₃	Cr-Co-Fe	1-5
K ₂ O 1-5	CdO	V ₂ O ₅	P ₂ O ₅	LOI	0.5-1
MgO 0-0.5	CoO	MnO ₂	BeO		
CaO 1-5	NiO	SiO ₂ 40-80	CeO ₂		
SrO	Al ₂ O ₃ 10-20	TiO ₂ 0-0.5	CuO		
BaO	Fe ₂ O ₃ 0-0.5	ZrO ₂ 5-10	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: 34.1 a: -0.5 b: -2.2

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
92.2	85.3	101.2	175.6	573 C°	657 C°	>875 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
66.7	34.9	16.7	3.1	0.1	17

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Not recommended for food use due to its craquelé effect that does not give the piece its total tightness

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

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