

DATA SHEET

42001204 OX. C. P-186 NEGRO POLVO

07/11/2025 v1.4

1. PRODUCT IDENTIFICATION

Description Inorganic Pigment. Spinel. Co-Cr-Fe. Maximun operating temperature 1220°C.

Application This series of pure pigments can be used both for coloring glazes, as for onglaze/underglaze decoration. In the first case, the intensity of the color will depend on the components of the glaze, as well as the cycle and the firing temperature. In the second case,the pigment should be mixed with a flux: lead flux Decor-flux-5 or Flux No. 50 and lead-free in composition flux: Flux 20 or Glaze F-15. The percentages of addition range 30-60%.

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	Cr-Co-Fe	80-100
Na ₂ O	MnO	B ₂ O ₃	Bi ₂ O ₃		
K ₂ O	CdO	V ₂ O ₅	P ₂ O ₅		
MgO	CoO	MnO ₂	BeO		
CaO	NiO	SiO ₂	CeO ₂		
SrO	Al ₂ O ₃	TiO ₂	CuO		
BaO	Fe ₂ O ₃	ZrO ₂	Pr ₂ O ₃		
PbO	Sb ₂ O ₃	SnO ₂			

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect **Black**
Color(fired) **Black powder**

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 27.68 a: 0.02 b: -0.65

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
				C°	C°	> 1000 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
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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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