

# DATA SHEET

41242504 OX.C. CR-10 REAC S/Pb PICAS POLVO

01/04/2025 v1.6

## 1. PRODUCT IDENTIFICATION

**Description** Speckles reactive decorative color. They are designed to achieve reactive effects and color gradients on or under ceramic glaze. Compound of frit: CAS N°. 65997-18-4.

**Application** It can be applied on any biscuit clay, white, red, terracotta at low temperature and on stoneware or porcelain at high temperature. It can be applied with a brush, airbrush, serigraphy, sponge, even to make decals. Firing temperature ranges between 980°C and 1280°C. To obtain a better color reaction, we recommend at 980°C the Opal Reactive Glaze EESP-30 and at 1280°C the O-10218.

## 2. CHEMICAL COMPOSITION

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

Li <sub>2</sub> O	5-10	ZnO	1-5	Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>	
Na <sub>2</sub> O		MnO		B <sub>2</sub> O <sub>3</sub>	10-20	Bi <sub>2</sub> O <sub>3</sub>	LOI
K <sub>2</sub> O	1-5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	0.5-1
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	
CaO	1-5	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>	
SrO	0.5-1	Al <sub>2</sub> O <sub>3</sub>	5-10	TiO <sub>2</sub>	10-20	CuO	
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	5-10	ZrO <sub>2</sub>	0-0.5	Pr <sub>2</sub> O <sub>3</sub>	
PbO		Sb <sub>2</sub> O <sub>3</sub>		SnO <sub>2</sub>			

## 3 PHYSICAL-CHEMICAL PROPERTIES

**Aspect** Speckles powder  
**Color(fired)** Speckles

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: a: b:

## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L  $10^{-7} \text{ C}^{-1}$

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation	T <sup>a</sup> Softening	Melting point
90.0	92.6	105.2		485 C°	594 C°	>825 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

\* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
57.2	29.0	14.2	2.9	0.0	13.3

## 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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