

# DATA SHEET

41132604 ESM. EOSP-26 OPACO ANTRACITA POLVO

22/10/2024 v1.3

## 1. PRODUCT IDENTIFICATION

Description BRIGHT OPAQUE ANTHRACITE GLAZE. It belongs to the "EOSP" series, recommended for ceramicware.  
Compound of frit: CAS N°. 65997-18-4.

Application The glaze can be applied by dipping, brush, screen printing or spray and can be used for decoration of white body or red clay. The firing recommended temperature varies from 980 °C to 1150°C. They can be used at higher temperatures obtaining the same or even other finishes, wich will depend on the body.

## 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> | Co-Fe-Cr 5-10 |
| K <sub>2</sub> O  | 1-5   | CdO                            |       | V <sub>2</sub> O <sub>5</sub>  |       | P <sub>2</sub> O <sub>5</sub>  | LOI 0-0.5     |
| MgO               | 0-0.5 | CoO                            |       | MnO <sub>2</sub>               |       | BeO                            |               |
| CaO               | 5-10  | NiO                            |       | SiO <sub>2</sub>               | 40-80 | CeO <sub>2</sub>               |               |
| SrO               |       | Al <sub>2</sub> O <sub>3</sub> | 5-10  | TiO <sub>2</sub>               | 0-0.5 | CuO                            |               |
| BaO               | 1-5   | Fe <sub>2</sub> O <sub>3</sub> | 0-0.5 | ZrO <sub>2</sub>               | 1-5   | 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 Grey powder  
Color(fired) Bright anthracite

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 29.6 a: 0.7 b: -0.2

## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L 10<sup>-7</sup> C<sup>-1</sup>

| (25-300)C° | (50-300)C° | (300-500)C° | (500-600)C° | T <sup>a</sup> Transformation | T <sup>a</sup> Softening | Melting point |
|------------|------------|-------------|-------------|-------------------------------|--------------------------|---------------|
| 59.95      | 59.43      | 63.04       | 99.04       | 592 C°                        | 668 C°                   | >850 C°       |

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

| >10μ | >25μ | >40μ | >70μ | >120μ | D50μ |
|------|------|------|------|-------|------|
| 60   | 30   | 13   | 2    | 0     | 15.5 |

## 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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