

# DATA SHEET

22307304      ENGOBE EASP-12 AZUL CLARO POLVO

15/07/2024    v1.2

## 1. PRODUCT IDENTIFICATION

|             |                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | BLUE ENGOBE FOR HIGH TEMPERATURE. High Temperature Engobes " EASP" series is a collection of coloured engobes designed for glaze and decorate pieces of stoneware or porcelain.                                                                                        |
| Application | They can be applied by brush, aerograph or dipping. If they are used in single firing it is advisable to add 5% of Monocol V for better grip engobe to the piece. The temperature range is from 980 to 1280 ° C, obtaining the maximum colour development at 1280 ° C. |

## 2. CHEMICAL COMPOSITION

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

|                   |       |                                |       |                                |       |                                |          |       |  |
|-------------------|-------|--------------------------------|-------|--------------------------------|-------|--------------------------------|----------|-------|--|
| Li <sub>2</sub> O | 1-5   | ZnO                            |       | 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>  |       | Bi <sub>2</sub> O <sub>3</sub> | Al-Co-Zn | 10-20 |  |
| K <sub>2</sub> O  | 1-5   | CdO                            |       | V <sub>2</sub> O <sub>5</sub>  |       | P <sub>2</sub> O <sub>5</sub>  | MEDIUM   | 0-0.5 |  |
| MgO               | 0-0.5 | CoO                            |       | MnO <sub>2</sub>               |       | BeO                            | LOI      | 5-10  |  |
| CaO               | 0-0.5 | NiO                            |       | SiO <sub>2</sub>               | 40-80 | CeO <sub>2</sub>               |          |       |  |
| SrO               |       | Al <sub>2</sub> O <sub>3</sub> | 10-20 | TiO <sub>2</sub>               | 0.5-1 | CuO                            |          |       |  |
| BaO               |       | Fe <sub>2</sub> O <sub>3</sub> | 0.5-1 | ZrO <sub>2</sub>               |       | 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       | Blue powder |
| Color(fired) | Blue        |

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

|          |          |           |
|----------|----------|-----------|
| L: 51.64 | a: -2.71 | b: -24.65 |
|----------|----------|-----------|

## 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° | Tª Transformation | Tª Softening | Melting point |
|------------|------------|-------------|-------------|-------------------|--------------|---------------|
| 55.9       | 56         | 63.4        | 85.5        | 524 C°            | 883 C°       | >900 C°       |

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

| >10µ | >25µ  | >40µ | >70µ | >120µ | D50µ |
|------|-------|------|------|-------|------|
| 41.9 | 17.53 | 8.5  | 2.1  | 0.01  | 7.6  |

## 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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