

# DATA SHEET

41151504 ESM. EMSP-15 BEIGE MATE POLVO

26/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

Description MAT BEIGE GLAZE.It belongs to the "EMSP" series recommended for ceramicware. Compound of frit: CAS N°. 65997-18-4.

Application The glazes can be decorated by the coulors of serie CD for application over white or red bodies. The firing recommended temperature varies from 980 °C to 1080°C. They can be used at higher temperatures obtaining the same or even other finishes.

## 2. CHEMICAL COMPOSITION

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

|                   |       |                                |       |                                |       |                                |  |                  |       |
|-------------------|-------|--------------------------------|-------|--------------------------------|-------|--------------------------------|--|------------------|-------|
| Li <sub>2</sub> O |       | ZnO                            | 10-20 | Cr <sub>2</sub> O <sub>3</sub> |       | CaF <sub>2</sub>               |  |                  |       |
| Na <sub>2</sub> O | 5-10  | MnO                            |       | B <sub>2</sub> O <sub>3</sub>  | 5-10  | Bi <sub>2</sub> O <sub>3</sub> |  | HfO <sub>2</sub> | 0-0.5 |
| K <sub>2</sub> O  | 0-0.5 | 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              | 1-5   |
| CaO               | 5-10  | NiO                            |       | SiO <sub>2</sub>               | 40-80 | CeO <sub>2</sub>               |  | Zr-Fe-V-Si       | 1-5   |
| 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>               | 5-10  | 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 Beige powder  
Color(fired) Beige

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 76.44 a: 1.42 b: 3.25

## 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 |
|------------|------------|-------------|-------------|-------------------------------|--------------------------|---------------|
| 69.8       | 68.5       | 80.6        | 183.5       | 561 C°                        | 650 C°                   | >875 C°       |

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

| >10µ | >25µ | >40µ | >70µ | >120µ | D50µ |
|------|------|------|------|-------|------|
| 65.7 | 34.1 | 17.1 | 3.9  | 0     | 16.4 |

## 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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