

# DATA SHEET

12105407 ESMALTE 5888 TR. MATE S/Pb ATOMIZAD

17/02/2025 v1.5

## 1. PRODUCT IDENTIFICATION

**Description** Transparent and Matt Glaze suitable for use on white body. It is recommended to try red, terracotta, pottery and colored bodies because the result of the color of the body may vary depending on the thickness of the application. Compound of frit: CAS N°. 65997-18-4.

**Application** It can be applied :dipping, spraying, any mechanical application method.It can be coloured with our Pigments "P" Series, keeping in mind it contains Zn . It is recommended to make previous test for colouring with natural oxides and firing cycles over 1080 °C. "CD Series" of underglaze colours can be used for decoration. The recommended temperature varies from 980°-1080°C.

## 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> | LOI 1-5 |
| K <sub>2</sub> O  | 0.5-1 | CdO                            |       | V <sub>2</sub> O <sub>5</sub>  |       | P <sub>2</sub> O <sub>5</sub>  |         |
| 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               | 5-10  | Fe <sub>2</sub> O <sub>3</sub> | 0-0.5 | 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** White powder  
**Color(fired)** Transparent Matt

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: n.a                      a: n.a                      b: n.a

| 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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