

DATA SHEET

41151004 ESM. EMSP-10 V. CLARO MATE POLVO

26/02/2025 v1.4

1. PRODUCT IDENTIFICATION

Description MAT LIGHT GREEN 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 colors 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 ₂ O | | ZnO | 10-20 | Cr ₂ O ₃ | | CaF ₂ | | HfO ₂ | 0-0.5 |
| Na ₂ O | 1-5 | MnO | | B ₂ O ₃ | 5-10 | Bi ₂ O ₃ | | | |
| K ₂ O | 0-0.5 | CdO | | V ₂ O ₅ | | P ₂ O ₅ | | MEDIUM | 0-0.5 |
| MgO | 0-0.5 | CoO | | MnO ₂ | | BeO | | LOI | 1-5 |
| CaO | 1-5 | NiO | | SiO ₂ | 40-80 | CeO ₂ | | Zr-V-Pr-Si-Fe | 5-10 |
| SrO | | Al ₂ O ₃ | 5-10 | TiO ₂ | 0-0.5 | CuO | | | |
| BaO | 1-5 | Fe ₂ O ₃ | 0-0.5 | ZrO ₂ | 5-10 | Pr ₂ O ₃ | | | |
| PbO | | Sb ₂ O ₃ | | SnO ₂ | | | | | |

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Green powder
Color(fired) Light green

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 72.96 a: -9.18 b: 5.81

5. DILATOMETRY

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

| (25-300)C° | (50-300)C° | (300-500)C° | (500-600)C° | T ^a Transformation | T ^a 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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