

# DATA SHEET

20670804      ESM GRES O- 6008 VERDE POL \*25Kg\*

25/11/2025      v1.1

## 1. PRODUCT IDENTIFICATION

|             |                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | GREEN GLAZE. It belongs to high temperature glazes, with high rutile content. The result can be opaque matte, or satin. The final effect can be different depending on firing temperature, coat of glaze and kind of biscuit. The result will vary depending on the used body, temperature, cycle and atmosphere.<br>Compound of frit: CAS N°. 65997-18-4. |
| Application | They can be applied by brush, spraying or dipping in single- and double-fired. For one firing it's advisable the addition of Monocol V. Temperature range 1200°C - 1340°C, recommended temperature 1260°C. It is advisable to test at extreme temperatures.                                                                                                |

## 2. CHEMICAL COMPOSITION

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

|                           |                                      |                                |                                |        |       |
|---------------------------|--------------------------------------|--------------------------------|--------------------------------|--------|-------|
| Li <sub>2</sub> O         | ZnO                                  | Cr <sub>2</sub> O <sub>3</sub> | CaF <sub>2</sub>               |        |       |
| Na <sub>2</sub> O    1-5  | MnO                                  | B <sub>2</sub> O <sub>3</sub>  | Bi <sub>2</sub> O <sub>3</sub> | MEDIUM | 0-0.5 |
| 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    | 10-20 |
| MgO      0-0.5            | CoO                                  | MnO <sub>2</sub>               | BeO                            |        |       |
| CaO      10-20            | NiO    1-5                           | 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> 5-10          | CuO                            |        |       |
| BaO                       | Fe <sub>2</sub> O <sub>3</sub> 0-0.5 | ZrO <sub>2</sub> 0-0.5         | 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) | Green       |

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

|         |        |         |
|---------|--------|---------|
| L: 69.8 | a: 3.5 | b: 15.5 |
|---------|--------|---------|

## 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 |
|------------|------------|-------------|-------------|-------------------------------|--------------------------|---------------|
| 72.6       | 73.9       | 83.2        | 102.6       | 559 C°                        | 872 C°                   | C°            |
|            |            |             |             |                               |                          | Mis           |

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

| >10µ | >25µ | >40µ | >70µ | >120µ | D50µ |
|------|------|------|------|-------|------|
| 47.1 | 18.5 | 7.3  | 1.0  | 0.0   | 9.1  |

## 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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