

DATA SHEET

20781404 ESM. GRES O-10563/N V. COBRE POLVO

08/01/2026 v1.1

1. PRODUCT IDENTIFICATION

Description Copper glossy Glaze (Not contains Zn)
It belongs to high temperature glazes.

Application The glaze can be coloured natural and synthetic oxides. It admits either once firing. It can be applied over: porcelain, stoneware and over any of their varieties. The range for temperatures varies from 1200 to 1320°C.

2. CHEMICAL COMPOSITION

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

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

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Brown powder
Color(fired) Copper

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 45.4 a: -13.6 b: -4.7

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 |
|------------|------------|-------------|-------------|-------------------------------|--------------------------|---------------|
| 78.8 | 77.6 | 87.6 | 114.6 | 588 C° | 866 C° | >1100 C° |

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

| >10µ | >25µ | >40µ | >70µ | >120µ | D50µ |
|------|------|------|------|-------|------|
| 48.8 | 18.1 | 6.8 | 0.9 | 0.1 | 9.7 |

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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