



SIO-2 - PRNI STONEWARE CLAY BLACK 0-0.2 MM CHAMOTTE

This black stoneware clay with 40% of impalpable chamotte ranging from 0 to 0.2 mm is designed for artistic ceramics and is ideal for turning and shaping pieces with fine details and smooth surfaces.

- The high chamotte content gives character to the ceramic piece and provides excellent behavior during drying and firing.
- The intense black color of the PRN range in oxidizing firing is very unique and appreciated, becoming an ideal means of artistic expression.
- In a reducing atmosphere, excellent metallization effects of beautiful blue tones are obtained.
- It is suitable for the production of tableware (food-safe), in compliance with ISO 6486.
- Available in extruded plastic clay.

Technical specifications:

- Firing temperature: 1200-1240°C
- Biscuit temperature: 1000°C
- Moisture: 21%
- Plasticity (Atterberg IP): 22
- Calcimetry (CaCO₃): 0%
- Shrinkage during drying: 7.0%
- Shrinkage in firing (1240°C): 7.1%
- Porosity (water absorption 1240°C): 1.3%
- Dry mechanical strength: 4.6 N/mm²
- Mechanical strength in firing (1240°C): 33.3 N/mm²
- Coefficient of expansion (a_{25-500°C}): 51.1x10⁻⁷°C⁻¹

Recommendations for the use of ceramic glazes

- Use glazes without zinc (Zn) to avoid unexpected reactions such as bubbles or color changes.
- Other elements that can react are zirconium (Zr) and tin (Sn).
- We recommend consulting your usual glaze supplier to ensure proper compatibility with this ceramic paste.
- Do not use glazes with a low coefficient of expansion (a_{25-300°C} < 60x10⁻⁷°C⁻¹).
- The PRN clay baked at high temperature has a high coefficient of expansion in the range between 100 and 200°C, which causes tensions between the glaze and the support, especially in the processing of pieces.

Color / Size

12,5 KG

Black

55217