SIO-2® PRNF - Black Sculpture Clay with Fine Grog

PRNF @gabi_levinton_ceramica

PRNF Martha Rieger

SIO-2® PRNF Black Sculpture Clay contains 40% fine grog measuring between 0-0.5 mm (up to 35 Mesh), making it ideal for artistic ceramics and sculpture. The high grog content gives it a beautiful textured surface, and it behaves exceptionally well during both drying and firing.

When fired in an oxidizing atmosphere, this clay produces a striking and intense black color that is exclusive to the PRN range of SIO-2® clays. When fired in a reduced oxygen atmosphere, it produces metallic effects with blue undertones.

SIO-2® PRNF clay is sensitive to cooling, which can cause breakage in pieces glazed with a low expansion coefficient (<60x10-7°C-1) glaze on one side only. For this reason and as a preventive measure, we recommend not opening the kiln until it is cold (below 100°C – 212°F).

Firing range: Cone 5-7 (2205°-2295°F)
Biscuit: Cone 06 (1855°F)
Water content: 21%
Plasticity (IP Atterberg): 22
Carbonate content (CaCO3): 0%
Drying shrinkage: 7.0%
Firing shrinkage at Cone 7: 4.5%
Porosity (water absorption) at Cone 7: 9.4%
Dry bending strength: 2.0 N/mm2
Fired bending strength at Cone 7: 27.5 N/mm2
Thermal coefficient (a25-500°C): 55.8x10-7°C-1N/mm2

IS IRON OXIDE USED TO MAKE THE CLAY BLACK?

No. This clay uses a very dark clay and a small quantity of manganese (<5%) to get the right color.

IS PRNF SUITABLE FOR TABLEWARE?

No. PRNF clay bodies are meant for sculpture and have not been tested to be food-grade according to ISO 6486 standards.

GLAZE RECOMMENDATIONS

SIO-2® Brilliant Gold 10% glaze (displayed on the bowl picture above) can be thinly applied with a brush or airbrush to a clean, dust-free area to create a stunning, authentic-looking golden surface.
The firing temperature ranges between 1022° – 1382°F, depending on the type of ceramic or glass application.

Use zinc-free glazes to prevent bubbling or color changes.

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