

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

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.



PRNF @gabi_levinton_ceramica



PRNF Martha Rieger



Cone 03



Cone 5



Cone 7

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 ($60 \times 10^{-7} \text{C}^{-1}$) 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: 1200-1260°C / Cone 5-7
Biscuit temperature: 1000°C / Cone 06
Water content: 21%
Plasticity (IP Atterberg): 19
Carbonate content (CaCO₃): 0%
Drying shrinkage: 8.1%
Firing shrinkage 1260°C: 3.7%
Porosity (water absorption) 1260°C: 8.8%
Dry bending strength: 5.7 N/mm²
Fired bending strength 1260°C: 29.5 N/mm²
Thermal coefficient 1260°C (25-500°C):
50.8x10⁻⁷°C⁻¹



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