

# 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.

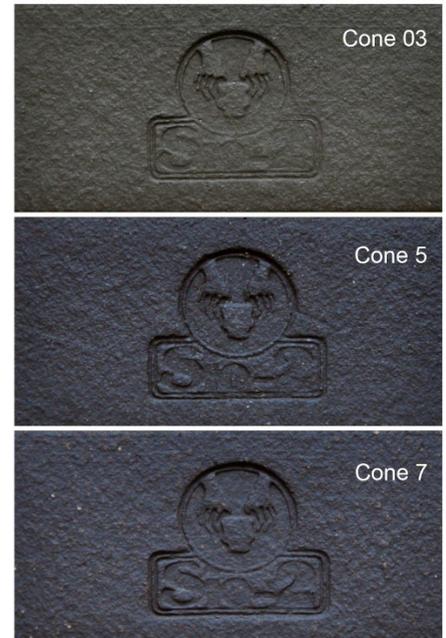
Use zinc-free glazes to prevent bubbling or color changes.



**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<sup>-7</sup>°C<sup>-1</sup>) 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 (CaCO<sub>3</sub>): 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/mm<sup>2</sup>**  
**Fired bending strength at Cone 7: 27.5 N/mm<sup>2</sup>**  
**Thermal coefficient (a<sub>25-500°C</sub>): 55.8x10<sup>-7</sup>°C<sup>-1</sup>N/mm<sup>2</sup>**



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