

SIO-2® PRNI - Black Stoneware Clay with Impalpable Grog

IS IRON OXIDE USED TO MAKE THE CLAY BLACK?
No. SIO-2® PRNI bodies use a very dark clay and a small quantity of manganese (<5%) to get the right color.

IS PRNI MICROWAVE SAFE?

SIO-2® PRNI clay fired at cone 6 are microwave and dishwasher safe (however to ensure the longevity of your objects, it's always better to avoid using them in the microwave and dishwasher).

IS PRNI SUITABLE FOR TABLEWARE?

Yes. PRNI clay bodies are food-safe according to ISO 6486:1999 standards.

GLAZE RECOMMENDATIONS

Use zinc-free glazes to prevent unexpected reactions such as bubbling or color changes. We recommend consulting your usual glaze supplier to ensure proper suitability.



PRNI Tono Perez



PRNI Caetano de Oliveira



Cone 03



Cone 5



Cone 6

SIO-2® PRNI is a black stoneware clay body with 40% impalpable grog (up to 80 Mesh). Formulated for artistic ceramics, it is ideal for wheel-throwing and modeling smooth pieces with fine details.

The high content of grog allows for excellent behavior during drying and firing. This clay has a beautiful & intense black color when fired in an oxidizing atmosphere and is unique to the PRNI range of clay bodies. In a reduced oxygen atmosphere, metallic effects with shades of blue can be obtained.

SIO-2® PRNI clay is sensitive to cooling, which can cause breakage in pieces glazed with a low expansion coefficient ($60 \times 10^{-7} \text{ } ^\circ\text{C}^{-1}$) glaze on one side only. For this reason and as a preventive measure, we recommend not opening the kiln until it is cold (below $100^\circ\text{C} - 212^\circ\text{F}$).

Firing range: Cone 5-6 (2205°F - 2269°F)
Biscuit: Cone 06 (1855°F)
40% Fine Grog (up to 80 Mesh)
Water content: 21%
Plasticity (IP Atterberg): 22
Carbonate content (CaCO₃): 0%
Drying shrinkage: 7.0%
Firing shrinkage at Cone 6: 7.1%
Porosity (water absorption) at Cone 6: 1.3%
Dry bending strength: 4.6 N/mm²
Fired bending strength at Cone 6: 33.3 N/mm²
Thermal coefficient (a_{25-500°C}):
51.1x10⁻⁷°C⁻¹



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