

# Technical Data Sheet

## Schwarz Stoneware



Throwing



Modelling



Firing Range: 1120-1280°C



Colour: Grey to Black



Texture: Smooth Textured



Bag Size: 10kg

Fired at

1300°C

1280°C

1260°C

1240°C

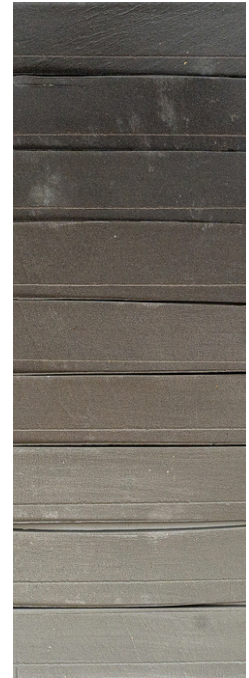
1220°C

1200°C

1180°C

1160°C

1140°C



| CHEMICAL ANALYSIS<br>(MEAN VALUES. THESE DO NOT REPRESENT A SPECIFICATION.) |                                |      |  |
|---|--------------------------------|------|--|
| Silicon Oxide   | SiO <sub>2</sub>               | 69.0 | These oxides exist in crystalline complexes of Albite, Microcline and Nepheline. |
| Aluminium Oxide   | Al <sub>2</sub> O <sub>3</sub> | 21.2 |  |
| Titanium Oxide  | TiO <sub>2</sub>               | 1.6  |  |
| Iron Oxide  | Fe <sub>2</sub> O <sub>3</sub> | 4.9  |  |
| Calcium Oxide   | CaO                            | 0.0  |  |
| Magnesium Oxide   | MgO                            | 0.5  |  |
| Potassium Oxide   | K <sub>2</sub> O               | 2.8  |  |
| Sodium Oxide  | Na <sub>2</sub> O              | 0.0  |  |

| CERAMIC DATA<br>(MEAN VALUES. THESE DO NOT REPRESENT A SPECIFICATION.) |        |            |        |
|--|--------|------------|--------|
| Dry Shrinkage  | 7      |            |        |
| Firing Temperature   | 1070°C | 1140°C     | 1240°C |
| Firing Colour  | Grey   | Anthracite | Black  |
| Firing Shrinkage in %  | 3      | 5          | 8      |
| Water Absorption in %  | 9      | 5          | 0.1    |
| Coefficient of Thermal Expansion (CTE)                                 |        |            |        |
| 20°C - 400°C   | 65     | 67         | 63     |
| 20°C - 500°C   | 68     | 70         | 65     |
| 20°C - 600°C   | 79     | 81         | 72     |
| CTE * 10 <sup>-7</sup> /K  |        |            |        |
| Moisture Expansion in %  | 0.15   | 0.05       |        |

This technical information is only a guide, established from the characterisation and analysis of representative samples, and from routine production averages.

Product characteristics are subject to modifications.

