

# Self Flow Castables

## Product Data

### SUREFLOW 85QT

**SUREFLOW 85QT** is a High Alumina, low cement self flow castable. This product is recommended for Pre-cast Shapes or new and full lining repairs using anchored construction. After its 15hr curing period Sureflow 85QT can be dried at heat up rates much higher than traditionally used. **Sureflow 85QT** has good strength, thermal shock and abrasion resistance.

**Maximum Service Temperature:** 1700°C

**Bulk Density:**

Fired to 815°C 2600 – 2800 kg/m<sup>3</sup>

**Cold Crushing Strength:**

Fired to 815°C > 500 kg/cm<sup>2</sup>  
 Fired to 1600°C > 700 kg/cm<sup>2</sup>

**Modulus of Rupture:**

Fired to 815°C > 100 kg/cm<sup>2</sup>

**Erosion Loss (ASTM C704):**

Fired to 815°C < 8 cc

**Permanent Linear Change(%):**

Green to 815°C 0.0 to -0.3

**Conductivity or “K” Factor:**

| Mean Temp.      | BTU/ft <sup>2</sup> /HR/°F/in | W/mK |
|-----------------|-------------------------------|------|
| 1000°F ( 540°C) | 13.0                          | 1.90 |
| 1500°F ( 815°C) | 12.0                          | 1.70 |
| 2000°F (1095°C) | 12.0                          | 1.70 |

**Typical Chemical Analysis(%):**

|         | Al <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO+MgO | Alkalies |
|---------|--------------------------------|------------------|--------------------------------|------------------|---------|----------|
| Spec;   | >85.0                          | <15.0            | <1.50                          | <2.5             | <2.0    | <0.5     |
| Typical | 85.3                           | 9.0              | 1.15                           | 2.3              | 1.8     | 0.4      |

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