



# CERAMITE SFW

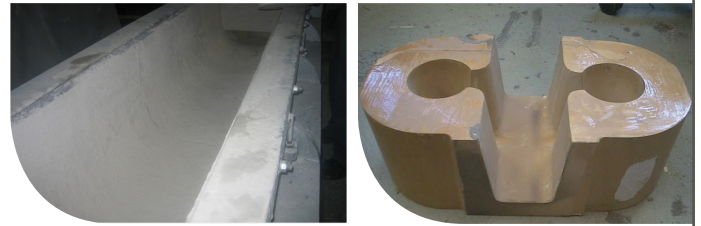
## FUSED SILICA REFRACTORY CASTINGS

Ceramite® SFW is a cast refractory containing white cement, and based on fused silica material. This refractory is naturally non-wetting and formulated especially for use with high silicon alloys, typically foundry alloys.

Products cast from this refractory are mainly used in the industry for casting launders, ceramic filter boxes and casting table modules. The aggregates in this formulation have a maximum grain size of approximately 5 millimetres (0.20 inches) and the material supports a maximum service temperature of up to 1000°C (1832°F).

### COMPOSITION

Material	Approximate Weight
SiO <sub>2</sub>	58%
Al <sub>2</sub> O <sub>3</sub>	34%
CaO	6%
Fe <sub>2</sub> O <sub>3</sub>	<0.5%



### BENEFITS

- Low thermal expansion
- Low thermal conductivity

### APPLICATIONS

- Casting launders
- Ceramic filter bowls
- Casting table modules

### AVAILABILITY

Ceramite SFW is available only as a precast, pre-fired casting.

### STORAGE

Precast shapes must remain dry and stored away from moisture. If exposed to moisture, the shape must be fired to remove the excess moisture prior to use.



Property	Temperature	Value
Density – kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	20°C (68°F)	1800 (112)
	600°C (1112°F)	1600 (100)
Cold Modulus of Rupture – MPa (psi)	20°C (68°F)	4 (580)
	600°C (1112°F)	5 (725)
	850°C (1562°F)	6 (870)
	1000°C (1832°F)	6 (870)
Cold Compressive Strength – MPa (psi)	20°C (68°F)	24 (3480)
	600°C (1112°F)	37 (5370)
	850°C (1562°F)	44 (6380)
	1000°C (1832°F)	42 (6090)
Abrasion – cm <sup>3</sup> (in <sup>3</sup> )	20°C (68°F)	21.8 (1.33)
	600°C (1112°F)	19.9 (1.21)
Thermal Conductivity – W/m·K (BTU·in/ft <sup>2</sup> ·hr·°F)	300°C (572°F)	0.6 (4.2)
	600°C (1112°F)	0.6 (4.2)
	900°C (1652°F)	0.7 (4.9)
Linear Thermal Expansion, 20–850°C (68–1562°F)		0.2%
Permanent Linear Change, 20–850°C (68–1562°F)		–0.7%
Maximum Service Temperature		1000 °C (1832 °F)
Maximum Grain Size – mm (in)		~5 (0.20)

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