

## SUREFLOW FS-6LC

*SUREFLOW FS-6LC IS A FUSED SILICA-BASED LOW CEMENT, SELF LEVELING CASTABLE NOTED FOR HIGH STRENGTH, GOOD ABRASION RESISTANCE AND LOW REVERSIBLE THERMAL EXPANSION. THIS MAKES IT WELL SUITED FOR APPLICATIONS WHERE THERMAL SHOCK CONTRIBUTES TO LINING FAILURE. ALSO AVAILABLE AS A LOW CEMENT GUNNING GRADE.*

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A FREE FLOWING CONSISTANCY AND Poured INTO FORMWORK WITHOUT VIBRATION OR TAMPING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1093°C

THERMAL EXPANSION COEFFICIENT  $1.4 \times 10^{-6}$  CM/CM/°C

BULK DENSITY

					TYPICAL
					(METRIC)
@ 110°C	137 - 142	LBS/FT <sup>3</sup>	2194 - 2275	KG/M <sup>3</sup>	(2242)
@ 815°C	133 - 138	LBS/FT <sup>3</sup>	2130 - 2210	KG/M <sup>3</sup>	(2180)

COLD CRUSHING STRENGTH

@ 815°C	8000 - 11000	P.S.I.	552 - 757	KG/CM <sup>2</sup>	(750)
@ M.S.T.	7000 - 10000	P.S.I.	483 - 690	KG/CM <sup>2</sup>	(600)

PERMANENT LINEAR CHANGE

@ 815°C 0.00 TO - 0.20 % (- 0.14)

MAXIMUM GRAIN SIZE 5.0 MM

EROSION LOSS (ASTM C-704)

@ 815°C 14 CC MAX

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	6.4	0.92
@ 815°C	6.9	0.99

TYPICAL CHEMICAL ANALYSIS (%)

<u>AL<sub>2</sub>O<sub>3</sub></u>	<u>SiO<sub>2</sub></u>	<u>Fe<sub>2</sub>O<sub>3</sub></u>	<u>CaO</u>	<u>MgO</u>	<u>TiO<sub>2</sub></u>	<u>ALK</u>
28.2	69.5	0.1	1.7	Tr	0.1	0.4

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