

SUREFLOW 80 SC

SUREFLOW 80 SC IS A SILICON CARBIDE BASED LOW CEMENT CASTABLE SPECIFICALLY DESIGNED FOR INSTALLATION BY SELF FLOW CASTING. ITS HIGH THERMAL CONDUCTIVITY MAKES IT IDEAL FOR APPLICATIONS WHERE HIGH HEAT TRANSFER IS IMPORTANT. SUREFLOW 80 SC SHOWS EXCELLENT RESISTANCE TO ABRASION, THERMAL SPALLING AND CORROSION, COMBINED WITH SUPER HIGH FIRED STRENGTHS.

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

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1500°C

BULK DENSITY

@ 110°C	153 - 161	LBS/FT ³	2450 - 2580	KG/M ³
@ 815°C	151 - 159	LBS/FT ³	2420 - 2550	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	8000 - 15000	P.S.I.	560 - 1050	KG/CM ²
@ 927°C	8000 - 15000	P.S.I.	560 - 1050	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C - 0.00 TO - 0.30 %

MAXIMUM GRAIN SIZE 5.0 MM

EROSION LOSS (ASTM C-704)

@ 815°C 8 CC MAX

ESTIMATED CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	56.0	8.1
@ 815°C	53.5	7.7

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	SiC	TiO ₂	ALK
10.8	8.0	0.2	1.2	79.0	---	0.2

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