

SUREFLOW 60 SC

SUREFLOW 60 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 60 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

<u>BULK DENSITY</u>				<u>TYPICAL (METRIC)</u>	
@ 110°C	165 - 171	LBS/FT ³	2643 - 2739	KG/M ³	(2707)
@ 815°C	163 - 169	LBS/FT ³	2611 - 2707	KG/M ³	(2675)

<u>COLD CRUSHING STRENGTH</u>					
@ 110°C	8000 - 12000	P.S.I.	552 - 827	KG/CM ²	(830)
@ 815°C	10000 - 14000	P.S.I.	690 - 965	KG/CM ²	(1030)
@ M.S.T.	12000 - 16000	P.S.I.	827 - 1103	KG/CM ²	(1000)

<u>PERMANENT LINEAR CHANGE</u>		
@ 815°C	- 0.00 TO - 0.30 %	(-0.18)

MAXIMUM GRAIN SIZE 5.0 MM

EROSION LOSS (ASTM C-704)

@ 815°C 6 CC MAX **TYPICAL (5.0 CC)**

<u>CONDUCTIVITY OR "K" FACTOR</u>		
<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	39.6	5.71
@ 1095°C	43.0	6.20

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	SiC	TiO ₂	ALK
31.0	7.9	0.2	1.6	59.2	---	0.2

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