

SUREFLOW 56SC

SUREFLOW 56 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 56 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	160 - 165	LBS/FT ³	2560 - 2640	KG/M ³	(2600)
@ 815°C	155 - 160	LBS/FT ³	2480 - 2560	KG/M ³	(2520)

<u>COLD CRUSHING STRENGTH</u>					
@ 815°C	10000 - 15000	P.S.I.	700 - 1050	KG/CM ²	(875)

<u>PERMANENT LINEAR CHANGE</u>					
@ 815°C	- 0.00 TO - 0.40 %				(-0.18)

MAXIMUM GRAIN SIZE 5.0 MM

<u>EROSION LOSS (ASTM C-704)</u>			<u>TYPICAL</u>
@ 815°C	8 CC MAX		(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	39.0	5.62
@ 1095°C	39.0	5.62

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	SiC	TiO ₂	AlK
32.0	9.5	0.5	1.6	56.2	---	0.2

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