



# LOW CEMENT PUMP CASTING GRADE

PRODUCT DATA

## VIBROCAST 65SCPC

VIBROCAST 65SCPC IS A SILICON CARBIDE BASED LOW CEMENT CASTABLE SPECIFICALLY DESIGNED FOR INSTALLATION BY PUMP CASTING. ITS HIGH THERMAL CONDUCTIVITY MAKES IT IDEAL FOR APPLICATIONS WHERE HIGH HEAT TRANSFER IS IMPORTANT. VIBROCAST 65SCPC 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 PUMP CASTING CONSISTANCY AND TAMPED INTO FORMWORK.

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

### BULK DENSITY

@ 110°C	160 - 166	LBS/FT <sup>3</sup>	2565 - 2660	KG/M <sup>3</sup>
@ 815°C	158 - 164	LBS/FT <sup>3</sup>	2530 - 2630	KG/M <sup>3</sup>

### COLD CRUSHING STRENGTH

@ 110°C	10000 - 14000	P.S.I.	690 - 965	KG/CM <sup>2</sup>
@ 815°C	12000 - 16000	P.S.I.	827 - 1103	KG/CM <sup>2</sup>

### PERMANENT LINEAR CHANGE

@ 815°C - 0.00 TO - 0.30 % )

MAXIMUM GRAIN SIZE 5.0 MM

## EROSION LOSS (ASTM C-704)

@ 815°C 6 CC MAX TYPICAL (4.0 CC)

### CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	41.6	6.0
@ 1095°C	45.0	7.0

### TYPICAL CHEMICAL ANALYSIS (%)

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	SiC	TiO <sub>2</sub>	AlK
19.0	13.7	0.2	1.4	64.2	0.14	0.14

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