



# LOW CEMENT HANDPACKING GRADES

PRODUCT DATA

## VIBROCAST 65SCHP

VIBROCAST 65SCHP IS A SILICON CARBIDE BASED LOW CEMENT CASTABLE SPECIFICALLY DESIGNED FOR INSTALLATION BY HAND PACKING. ITS HIGH THERMAL CONDUCTIVITY MAKES IT IDEAL FOR APPLICATIONS WHERE HIGH HEAT TRANSFER IS IMPORTANT. HANDPACK 65 SiC 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 PUTTY LIKE FOLD CONSISTANCY AND HAND PACKED INTO FORMWORK

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

WATER ADDITION REQUIRED TO HAND PACK 4.2 - 4.8 % BY WT

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

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

PERMANENT LINEAR CHANGE

@ 815°C	- 0.00 TO - 0.30 %	(-0.18)
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MAXIMUM GRAIN SIZE 3.5 MM

EROSION LOSS (ASTM C-704)

@ 815°C	4 CC MAX	TYPICAL (2.1 CC)
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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
28.0	5.9	0.1	1.4	64.4	---	0.2

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