



**RESCO**  
PRODUCTS (UK) LTD

## LOW CEMENT HANDPACKING GRADES

PRODUCT DATA

### VIBROCAST 85 SCHP

VIBROCAST 85 SCLC 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 85 SiC SHOWS EXCELLENT RESISTANCE TO ABRASION, THERMAL SPALLING AND CORROSION, COMBINED WITH HIGH FIRED STRENGTHS.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A PUTTY LIKE FOLD CONSISTANCY AND HAND PACKED INTO FORMWORK

<u>MAXIMUM SERVICE TEMPERATURE (M.S.T.)</u>				1500°C	
<u>BULK DENSITY</u>					<u>TYPICAL (METRIC)</u>
@ 110°C	162 - 168	LBS/FT <sup>3</sup>	2595 - 2691	KG/M <sup>3</sup>	(2620)
@ 815°C	160 - 166	LBS/FT <sup>3</sup>	2562 - 2658	KG/M <sup>3</sup>	(2610)
<u>COLD CRUSHING STRENGTH</u>					
@ 110°C	8000 - 12000	P.S.I.	552 - 827	KG/CM <sup>2</sup>	(680)
@ 815°C	10000 - 14000	P.S.I.	690 - 965	KG/CM <sup>2</sup>	(850)
@ M.S.T.	10000 - 14000	P.S.I.	690 - 965	KG/CM <sup>2</sup>	(800)

PERMANENT LINEAR CHANGE

@ 815°C - 0.00 TO - 0.30 % (-0.18)

MAXIMUM GRAIN SIZE 3.5 MM

### EROSION LOSS (ASTM C-704)

@ 815°C 5 CC MAX TYPICAL (3.5 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	72.8	10.5
@ 1095°C	77.7	11.2

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
9.2	4.9	0.1	1.1	84.5	---	0.2

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