



# LOW CEMENT HANDPACKING GRADES

PRODUCT DATA

## VIBROCAST 93HP

VIBROCAST 93LC IS A 1650°C EROSION RESISTANT LOW CEMENT CASTABLE DESIGNED FOR INSTALLATION BY HAND-PACKING. SIMPLY MIX THE MATERIAL TO A PUTTY LIKE CONSISTANCY AND HAND-PACK INTO PLACE. IT WILL FULLY HARDEN WITHIN 30 MINS OF PLACING.

THE DATA SHOWN IS BASED ON MATERIAL MIXED TO A FOLD/PUTTY LIKE CONSISTANCY AND HAND-PLACED INTO FORMWORK WITHOUT VIBRATION.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1650°C

WATER REQUIRED 4.8 - 5.2 % BY WT

<u>BULK DENSITY</u>				<u>TYPICAL (METRIC)</u>	
@ 110°C	181 - 187	LBS/FT <sup>3</sup>	2899 - 2995	KG/M <sup>3</sup>	(2950)
@ 815°C	179 - 185	LBS/FT <sup>3</sup>	2867 - 2963	KG/M <sup>3</sup>	(2915)

COLD CRUSHING STRENGTH

@ 110°C	15000 - 20000	P.S.I.	1034 - 1379	KG/CM <sup>2</sup>	(1310)
@ 815°C	17000 - 25000	P.S.I.	1172 - 1724	KG/CM <sup>2</sup>	(1586)
@ M.S.T.	15000 - 20000	P.S.I.	1034 - 1379	KG/CM <sup>2</sup>	(1300)

PERMANENT LINEAR CHANGE

@ 815°C - 0.00 TO - 0.30 % (-0.20)

MAXIMUM GRAIN SIZE 3.4 MM

## EROSION LOSS (ASTM C-704)

@ 815°C 4 CC MAX TYPICAL (2.5 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	17.3	2.50
@ 1095°C	18.0	2.60

TYPICAL CHEMICAL ANALYSIS (%)

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	AlK
92.0	6.0	0.1	1.6	0.3

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