

## VIBROCAST 80HP

*VIBROCAST 80HP 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.

### BULK DENSITY

@ 110°C	173 - 178	LBS/FT <sup>3</sup>	2771 - 2851	KG/M <sup>3</sup>
@ 815°C	169 - 174	LBS/FT <sup>3</sup>	2707 - 2787	KG/M <sup>3</sup>

### COLD CRUSHING STRENGTH

@ 110°C	15000 - 20000	P.S.I.	1034 - 1380	KG/CM <sup>2</sup>
@ 815°C	24000 - 30000	P.S.I.	1650 - 2070	KG/CM <sup>2</sup>
@ M.S.T.	22000 - 28000	P.S.I.	1517 - 1930	KG/CM <sup>2</sup>

### COLD MODULUS OF RUPTURE

@ 110°C	3000 - 4000	P.S.I.	207 - 276	KG/CM <sup>2</sup>
@ 815°C	3500 - 4500	P.S.I.	241 - 310	KG/CM <sup>2</sup>
@ M.S.T.	3000 - 4000	P.S.I.	207 - 276	KG/CM <sup>2</sup>

### PERMANENT LINEAR CHANGE

@ 815°C	0.00 TO - 0.30 %
@ M.S.T.	+ 1.00 TO + 2.00 %

EROSION LOSS (ASTM C-704) LESS THAN 6.0 CC

POROSITY @ 815°C 13 %

TYPICAL WATER TO HANDPACK 4.5 - 5.5 % BY WT.

MAXIMUM GRAIN SIZE 3/16 INCH 4.75 MM

### TYPICAL CHEMICAL ANALYSIS (%)

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	AlK
79.1	13.5	0.5	1.4	Tr	2.2	0.5

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