

## VIBROCAST 55

VIBROCAST 55 IS A 1650°C ANDALUSITE CONTAINING LOW CEMENT CASTABLE. IT IS IDEALLY GRAIN SIZED TO GIVE MINIMUM POROSITY AND LINEAR CHANGE WITH MAXIMUM DENSITY AND HIGH FIRED STRENGTHS. IT IS PARTICULARLY EASY TO INSTALL, IS TOLERANT OF MIXING WATER FLUCTUATIONS AND FLOWS READILY WITH MINIMUM VIBRATION.

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

BULK DENSITY

@ 110°C	152 - 157	LBS/FT <sup>3</sup>	2435 - 2515	KG/M <sup>3</sup>
@ 815°C	150 - 155	LBS/FT <sup>3</sup>	2400 - 2485	KG/M <sup>3</sup>

COLD CRUSHING STRENGTH

@ 815°C	13000 - 16000	P.S.I.	900 - 1100	KG/CM <sup>2</sup>
@ 1370°C	14000 - 17000	P.S.I.	965 - 1170	KG/CM <sup>2</sup>
@ 1595°C	12000 - 15000	P.S.I.	840 - 1050	KG/CM <sup>2</sup>

COLD MODULUS OF RUPTURE

@ 815°C	1300 - 1800	P.S.I.	90 - 124	KG/CM <sup>2</sup>
@ 1370°C	2300 - 2700	P.S.I.	160 - 190	KG/CM <sup>2</sup>
@ 1595°C	2200 - 2600	P.S.I.	155 - 180	KG/CM <sup>2</sup>

PERMANENT LINEAR CHANGE

@ 815°C	+ 0.10 TO - 0.20 %
@ 1370°C	0.00 TO + 0.30 %

EROSION LOSS (ASTM C-704) LESS THAN 7.0 CC

POROSITY @ 815°C 15 %

CONDUCTIVITY OR "K" FACTOR

	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
1000°F (540°C)	9.00	1.26
1500°F (815°C)	10.00	1.43
2000°F (1095°C)	10.00	1.43

TYPICAL CHEMICAL ANALYSIS (%)

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	TiO <sub>2</sub>	OTHER
55.0	42.0	0.7	1.3	0.8	0.2

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