



LOW CEMENT VIBRATABLES

PRODUCT DATA

VIBROCAST 50ALR

VIBROCAST 50ALR IS A LOW CEMENT CASTABLE WHICH IS IDEALLY GRAIN SIZED TO GIVE MINIMUM POROSITY AND LINEAR CHANGE WITH MAXIMUM DENSITY AND HIGH FIRED STRENGTHS. IT IS DESIGNED SPECIFICALLY TO RESIST THE PENETRATION OF MOLTON AL AND ITS ALLOYS. IT IS PARTICULARLY EASY TO INSTALL, IS TOLERANT TO MIXING WATER FLUCTUATIONS AND FLOWS READILY WITH MINIMUM VIBRATION.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1400°C)

BULK DENSITY

@ 110°C	156 - 162	LBS/FT ³	2500 - 2595	KG/M ³
@ 815°C	153 - 159	LBS/FT ³	2450 - 2545	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	13000 - 17000	P.S.I.	900 - 1770	KG/CM ²
@ 1370°C	15000 - 18000	P.S.I.	1050 - 1260	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	1200 - 1700	P.S.I.	84 - 120	KG/CM ²
@ 1370°C	2300 - 2700	P.S.I.	160 - 190	KG/CM ²

PERMANENT LINEAR CHANGE

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

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

POROSITY @ 815°C 16 %

CONDUCTIVITY OR "K" FACTOR

	<u>BTU/FT²/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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	TiO ₂	ZrO ₂
47.4	36.9	0.9	1.7	0.7	6.5

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