

VIBROCAST 45

VIBROCAST 45 IS A 1600°C LOW CEMENT CASTABLE WHICH 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 HAS EXCELLENT ABRASION AND ALKALI RESISTANCE.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1600°C)

BULK DENSITY

@ 110°C	141 - 146	LBS/FT ³	2259 - 2339	KG/M ³
@ 815°C	139 - 144	LBS/FT ³	2226 - 2307	KG/M ³

COLD CRUSHING STRENGTH

@ 110°C	10000 - 14000	P.S.I.	689 - 965	KG/CM ²
@ 815°C	12000 - 16000	P.S.I.	827 - 1103	KG/CM ²
@ M.S.T.	12000 - 16000	P.S.I.	827 - 1103	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	2000 - 3000	P.S.I.	137 - 207	KG/CM ²
@ M.S.T.	2000 - 3000	P.S.I.	137 - 207	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.10 TO - 0.30 %
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EROSION LOSS (ASTM C-704)	LESS THAN 8.0 CC
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CONDUCTIVITY OR "K" FACTOR

1000°F (540°C)	<u>BTU/FT²/HR/°F/IN</u>	<u>W/Mk</u>
	9.00	1.26

POROSITY

@ 815°C	15 %
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TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
47.7	46.6	1.1	2.2	0.2	1.5	0.7

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