

## LOW CEMENT VIBRATABLES

PRODUCT DATA

## **VIBROCAST 45ALR**

VIBROCAST 45ALR 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 @ 815°C	150 - 156 147 - 153				
		220,11	2300 2300	1.0, 11	
COLD CRUSHING	S STRENGTH				
0 815°C 0 1370°C	8000 - 12000 10000 - 15000		562 - 844 703 - 1054		
COLD MODULUS	OF RUPTURE				
@ 815°C	1200 - 1700	P.S.I.	84 - 120	KG/CM <sup>2</sup>	
@ 1370°C	1500 - 2000	P.S.I.	105 - 140	KG/CM <sup>2</sup>	
PERMANENT LIN	NEAR CHANGE				
@ 815°C @ 1370°C			0 - 0.30 % 0 + 0.30 %		
EROSION LOSS	(ASTM C-704)	LESS THA	N 9.0 CC		
POROSITY		@ <b>815</b> °C		18 %	

## CONDUCTIVITY OR "K" FACTOR

	BTU/FT <sup>2</sup> /HR/°F/IN	W/mK
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 (%)

<b>AL</b> 2 <b>O</b> 3	SiO2	<b>Fe</b> 2 <b>O</b> 3	CaO	TiO2	Alk
45.6	43.9	1.0	2.4	0.8	0.7

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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