

Vibrocast Mixes

Product Data

VIBROCAST 80ALR

VIBROCAST 80ALR is a 80% Alumina, Bauxite based castable designed for Aluminium Contact areas such as Melting and Holding furnace Hearths and lower side walls. **VIBROCAST 80ALR** has excellent strength, alkali and abrasion resistance. It is non-wetting to Aluminium and its alloys at all typical melt temperatures.

Maximum Service Temperature: 1500°C

Aluminium Cup Test Results:

<u>Sample condition</u>	<u>Test Alloy</u>	<u>Test Temp</u>	<u>Test Duration</u>	<u>Result</u>
Pre-fired 5hrs@ 815°C	7075	815°C	72hrs	No reaction or penetration
Pre-fired 5hrs@ 1100°C	7075	815°C	72hrs	No reaction or penetration

Bulk Density:

Fired to 815°C 2770 - 2870 kg/m³

Cold Crushing Strength:

Fired to 815°C 910 - 1330 kg/cm²

Modulus of Rupture:

Fired to 815°C 180 - 270 kg/cm²

Erosion Loss:

Fired to 815°C Less than 5cc

Permanent Linear Change(%):

Green to 110°C 0.0 to -0.1
110°C to 815°C 0.0 to -0.3

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	14.9	2.14
1500°F (815°C)	15.7	2.26
2000°F (1095°C)	15.7	2.26

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies	MgO
80.0	6.6	0.8	2.2	3.1	0.2	0.2

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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