



PRODUCT DATA

Brand Name: R-MAX C

Description: R-MAX C is an Abrasion-Resistant, Low Cement 70% Alumina Castable. This castable should be installed by vibration casting only; specifically form vibration.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3200°F (1760°C)

Typical Water Required for Mixing (by weight) :
Vibration Cast 4.3%

Bulk Density (pcf)	Vibration Cast Data	
After 220°F (105°C)	167	(2.67 g/cm ³)
After 1500°F (815°C)	164	(2.62 g/cm ³)

Cold Crushing Strength (psi)		
After 1500°F (815°C)	21000	(1470 kg/cm ²)

Thermal Conductivity (K Factor)	BTU/ft²/hr./°F/inch	W/mK
1000°F (538°C)	16.0	2.31
1500°F (815°C)	16.2	2.34
2000°F (1093°C)	16.5	2.38

Permanent Linear Change (%)	
Green to 220°F (105°C)	-0.1 to 0.0
After 1500°F (815°C)	-0.3 to 0.0

Abrasion Loss (using ASTM C-704 Method)	
After 1500°F (815°C)	4 cc

Typical Chemical Analysis (%)	
(Calcined Basis)	
Alumina (Al ₂ O ₃)	71.2
Silica (SiO ₂)	24.1
Lime (CaO)	1.7
Iron Oxide (Fe ₂ O ₃)	1.3
Titania (TiO ₂)	1.5
Alkalies (Na ₂ O+K ₂ O)	0.2

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0540

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), 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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