



PRODUCT DATA

Brand Name: R-MAX MP

Description: R-MAX MP is a high performance castable that features very high abrasion resistance and high cold crushing strength along with ease of installation. This product's zero-slump and soft "easy to install" consistency results in high installation rates when ramming or handpacking.

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

Maximum Service Temperature: 2400°F (1316°C)

Typical Water Required for Mixing (by weight) :
Ramming 5.1%

	Ramming Data	
Bulk Density (pcf)		
After 1500°F (815°C)	180	(2.88 g/cm ³)
Cold Crushing Strength (psi)		
After 1500°F (815°C)	22000	(1540 kg/cm ²)
Modulus of Rupture (psi)		
After 1500°F (815°C)	5500	(385 kg/cm ²)
Thermal Conductivity (K Factor)	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	17.8	2.58
1500°F (815°C)	17.5	2.54
2000°F (1093°C)	17.7	2.57
Permanent Linear Change (%)		
Green to 1500°F (815°C)	-0.4 to 0.0	
220°F (105°C) to 1500°F (815°C)	-0.3 to 0.0	
Abrasion Loss (using ASTM C-704 Method)		
After 1500°F (815°C)	3 cc (max)	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	85.3
Silica (SiO ₂)	5.9
Magnesia + Lime (CaO + MgO)	3.3
Iron Oxide (Fe ₂ O ₃)	0.6
Titania (TiO ₂)	2.0
Phosphorus Pentoxide (P ₂ O ₅)	1.8
Others	1.0

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

Brand Code: 0551

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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