



PRODUCT DATA

Brand Name: R-MAX PC QT

Description: R-MAX PC QT is a Pumpable, Abrasion-Resistant, 80% Alumina Castable. This castable can be installed by vibration casting and pumping methods. Ideal applications for this castable are severe abrasion areas where refractory heatup is difficult to control.

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) :
Pump Cast 5.5%

	Pump Cast Data	
Bulk Density (pcf)		
After 1500°F (815°C)	170	(2.72 g/cm ³)
Cold Crushing Strength (psi)		
After 1500°F (815°C)	18,500	(1300 kg/cm ²)
Modulus of Rupture (psi)		
After 1500°F (815°C)	2,600	(182 kg/cm ²)
Permanent Linear Change (%)		
Green to 220°F (105°C)	-0.1 to 0.0	
After 1500°F (815°C)	-0.4 to 0.0	
Thermal Conductivity (using ASTM C1113)		
Mean Temperature	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	17.0	2.46
1500°F (815°C)	17.2	2.49
2000°F (1093°C)	17.5	2.53
Abrasion Loss (using ASTM C-704 Method)		
After 1500°F (815°C)	4.0 cc	(average)

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	81.3
Silica (SiO ₂)	13.0
Lime (CaO)	1.9
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	2.4
Magnesia (MgO)	0.2
Alkalies (Na ₂ O+K ₂ O)	0.2

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

Brand Code: 1519

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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