



# Extreme Service Castables

## Cast Data

### R-MAX PC QT

A Low Cement, 80% Alumina Castable with Outstanding Abrasion Resistance that can be installed by vibration casting or pumpcasting. After the final set, this unique castable can be heated without the traditional controlled heating schedule. Ideal applications for this product include areas of severe abrasion, where refractory heatup is difficult to control or a shorter heatup schedule is desired.

**% Water Added to Cast:** 4.5% (typical)

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

**Bulk Density:**  
After 1500°F (815°C) 174 lbs/ft<sup>3</sup> (2784 kg/m<sup>3</sup>)

**Cold Crushing Strength:**  
After 1500°F (815°C) 21,500 psi (1505 kg/cm<sup>2</sup>)

**Permanent Linear Change (%):**  
After 1500°F (815°C) 0.0 to -0.2

**Erosion Loss using ASTM C-704 Method:**  
After 1500°F (815°C): 3.0 cc (typical)

<b><u>Typical Chemical Analysis (%):</u></b>						
Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Alkalies
80.2	14.2	2.7	1.1	1.1	0.2	0.5

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

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition 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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**PUMPCAST DATA SHOWN ON PAGE 2**

**R-MAX PC QT**

**Pump Cast Data (Typical)**

**% Water to Pumpcast, by weight:** 5.5%

**Bulk Density:**

After 1500°F (815°C): 172 lbs/ft<sup>3</sup> (2752 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

After 1500°F (815°C): 14,500 psi (1015 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**

After 1500°F (815°C): 0.0 to -0.2

**Erosion Loss using ASTM C-704 Method:**

After 1500°F (815°C): 3.5 cc (typical)