



# PRODUCT DATA

Brand Name:

**R-MAX AZS PC QT**

Description:

R-MAX AZS PC QT is a pumpable, abrasion-resistant castable that contains an alumina-zirconia-silica (AZS) aggregate. This castable can be installed by vibration casting and pumping methods. This castable was specifically designed for areas of severe abrasion that require reduced dust buildup and especially where refractory heatup is difficult to control. After the final set, this unique castable can be heated without the traditional ramp-and-hold heatup schedule.

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 ..... 5.3%

	Pump Cast Data	
<b><u>Bulk Density (pcf)</u></b>		
After 220°F (105°C)	179	(2.87 g/cm <sup>3</sup> )
After 1500°F (815°C)	177	(2.84 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 1500°F (815°C)	20,000	(1400 kg/cm <sup>2</sup> )
<b><u>Permanent Linear Change (%)</u></b>		
Dry to 1500°F (815°C)	-0.3 to 0.0	
<b><u>Erosion Loss using ASTM C-704</u></b>		
After 1500°F (815°C)	4.3 cc	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	52.5
Silica (SiO <sub>2</sub> ) .....	19.6
Lime (CaO) .....	2.9
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.6
Titania (TiO <sub>2</sub> ) .....	0.5
Zirconia (ZrO <sub>2</sub> ) .....	17.5
Silicon Carbide (SiC) .....	5.0
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.4

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

Brand Code: 6679

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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