



# PRODUCT DATA

**Brand Name:** EZ CUBED® AZS

**Description:** A low cement castable, that contains an alumina-zirconia-silica (AZS) aggregate, that can be vibration cast, pumped, and shotcreted. This product was formulated specifically for cement preheater tower applications that require an abrasion-resistant monolithic refractory that resists dust build up.

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

**Maximum Service Temperature: 2800°F (1538°C)**

**Typical Water Required for Mixing (by weight) :**

Vibration Casting .....	5.1%
Pump Casting .....	5.3%

	Vibration Casting Data		Pump Casting Data	
<b><u>Bulk Density (pcf)</u></b>				
After 1500°F (815°C)	180	(2.88 g/cm <sup>3</sup> )	180	(2.88 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>				
After 1500°F (815°C)	12500	(875 kg/cm <sup>2</sup> )	12500	(875 kg/cm <sup>2</sup> )
<b><u>Abrasion Loss (using ASTM C-704)</u></b>				
After 1500°F (815°C)	4.0 cc	(Typical)	5.5 cc	(Typical)
<b><u>Permanent Linear Change (%)</u></b>				
After 1500°F (815°C)	-0.2		-0.2	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	52.7
Silica (SiO <sub>2</sub> ) .....	19.5
Lime (CaO) .....	1.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.2
Titania (TiO <sub>2</sub> ) .....	0.3
Magnesia (MgO) .....	0.2
Silicon Carbide (SiC) .....	4.9
Zirconia (ZrO <sub>2</sub> ) .....	20.5
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

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

**Brand Code:** 7326

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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12/28/16 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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