



# PRODUCT DATA

**Brand Name:** EZ EST 60PC

**Description:** EZ EST 60PC is a cement-free, 60% alumina castable that can be installed by casting, pumping, or shotcreting methods. This product requires an additional liquid binder, called EZ ADD binder, for mixing and installation.

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

**Maximum Service Temperature: 3000°F (1650°C)**

**Dry Material Required per Cubic Foot :** 155 lbs. (approximate)

**Typical EZ ADD Binder Required for Mixing (by weight) :**

Pump Casting .....	10.5 - 11.0%
Vibration Casting .....	9.0 - 10.0%

**Bulk Density (pcf)**

**Pump Cast Data**

After 220°F (105°C)	155	(2.48 g/cm <sup>3</sup> )
After 1500°F (815°C)	155	(2.48 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 220°F (105°C)	4700	(329 kg/cm <sup>2</sup> )
After 1500°F (815°C)	7500	(525 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 1500°F (815°C)	0.0 to -0.2
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**Thermal Conductivity (K Factor)**

Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	4.1	0.59
1500°F (815°C)	4.2	0.60
2000°F (1093°C)	4.8	0.69

**Abrasion Loss (ASTM C-704 Method)**

After 1500°F (815°C)	10 cc	(Typical)
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**Typical Chemical Analysis (%)**

(Calcined Basis including Liquid Binder)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	58.4
Silica (SiO <sub>2</sub> ) .....	38.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.8
Titania (TiO <sub>2</sub> ) .....	1.9
Lime (CaO) .....	0.1
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

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

Binder: 55 gallon drum, 265 gallon plastic totes

Brand Code: 8868 (Brand Code for EZ ADD Liquid is 8869)

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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