



# PRODUCT DATA

**Brand Name:** EZ CAST® 34-10

**Description:** EZ CAST® 34-10 is a high purity, cement-bonded, alumina-chrome castable that contains 10% chromic oxide. This castable can be used in severe slagging conditions and high temperatures. EZ CAST® 34-10 can be installed using vibration casting, pumping, and shotcreting methods. When shotcreting, RESCO SC-1 is the recommended shotcrete activator.

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

**Maximum Service Temperature: 3400°F (1871°C)**

**Dry Material Required per Cubic Foot :** 185 lbs. (approximate)

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

Pump Casting ..... 5.5 to 6.0%

**Typical Mixing Time :** 5 minutes

|  | Pump Cast Data |                           |
|--|----------------|---------------------------|
| <b><u>Bulk Density (pcf)</u></b>           |                |                           |
| After 1500°F (815°C)                       | 185            | (2.96 g/cm <sup>3</sup> ) |
| After 2700°F (1482°C)                      | 185            | (2.96 g/cm <sup>3</sup> ) |
| <b><u>Cold Crushing Strength (psi)</u></b> |                |                           |
| After 1500°F (815°C)                       | 2,820          | (197 kg/cm <sup>2</sup> ) |
| After 2730°F (1500°C)                      | 10,690         | (748 kg/cm <sup>2</sup> ) |
| <b><u>Modulus of Rupture (psi)</u></b>     |                |                           |
| After 1500°F (815°C)                       | 1,140          | (79 kg/cm <sup>2</sup> )  |
| After 2730°F (1500°C)                      | 2,520          | (176 kg/cm <sup>2</sup> ) |
| <b><u>Permanent Linear Change (%)</u></b>  |                |                           |
| After 1500°F (815°C)                       | +0.1           |                           |
| After 2730°F (1500°C)                      | +0.2           |                           |

**Typical Chemical Analysis (%)**

(Calcined Basis)

|   |      |
|---|------|
| Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....       | 88.7 |
| Silica (SiO <sub>2</sub> ) .....                      | 0.1  |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....    | 0.1  |
| Lime (CaO) .....                                      | 0.9  |
| Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....   | 0.2  |
| Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> ) ..... | 10   |

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

**Brand Code:** 3725

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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