



# PRODUCT DATA

**Brand Name:** EZ CAST 2800

**Description:** EZ CAST 2800 is a conventional cement, 45% alumina castable that can be installed by vibration cast, pumpcasting, or self-leveling methods.

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

**Dry Material Required per Cubic Foot :** 140 lbs. (approximate)

**Recommended Mixing Time:** 5 minutes

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

Vibration Casting ..... 6.5%  
Self-Flow ..... 8.0%

**Bulk Density (pcf)**

**Self-Flow Data**

After 220°F (105°C) :	137	(2192 kg/m <sup>3</sup> )
After 1500°F (815°C) :	136	(2176 kg/m <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 220°F (105°C) :	9,000	(630 kg/cm <sup>2</sup> )
After 1500°F (815°C) :	8,000	(560 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 1500°F (815°C) : 0.0 to -0.2

**Hot Modulus of Rupture, psi**

At 2000°F (1093°C) : 1,500 to 1,800 (105 to 126 kg/cm<sup>2</sup>)

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

After 1500°F (815°C): 10-14 cc (typical)

**Thermal Conductivity (using ASTM C1113)**

Mean Temperature	BTU/ft <sup>2</sup> /hr/°F/inch	W/mK
1000°F (538°C) :	9.4	1.36
1500°F (815°C) :	10.2	1.47
2000°F (1093°C) :	11.0	1.59

**Typical Chemical Analysis, % (Calcined Basis)**

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	44.8
Silica (SiO <sub>2</sub> ) .....	48.0
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.1
Titania (TiO <sub>2</sub> ) .....	1.7
Lime (CaO) .....	2.9
Magnesia (MgO) .....	0.4
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.1

**Brand Code:** 0809

**Standard Packaging:** 55 lbs bag, 72 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 (using standard rectangular shapes), 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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