



# PRODUCT DATA

**Brand Name:** EZ CAST® 2800 FINE

**Description:** EZ CAST® 2800 FINE is a Fine-Grained, Conventional Cement, 45% Alumina castable that can be installed by vibration cast, pumpcasting, or self-leveling methods.

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)

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

**Typical Water Required for Mixing (by weight) :**  
Self-Leveling ..... 7.8%

**Recommended Mixing Time:** 5 minutes

| <u>Bulk Density (pcf)</u> | <u>Self-Leveling Data</u> |                           |
|---------------------------|---------------------------|---------------------------|
| After 220°F (105°C)       | 137                       | (2.19 g/cm <sup>3</sup> ) |
| After 1500°F (815°C)      | 136                       | (2.18 g/cm <sup>3</sup> ) |

| <u>Cold Crushing Strength (psi)</u> |        |                           |
|-------------------------------------|--------|---------------------------|
| After 220°F (105°C)                 | 11,000 | (770 kg/cm <sup>2</sup> ) |
| After 1500°F (815°C)                | 8,000  | (560 kg/cm <sup>2</sup> ) |

| <u>Permanent Linear Change (%)</u> |             |  |
|------------------------------------|-------------|--|
| After 1500°F (815°C)               | 0.0 to -0.2 |  |

| <u>Hot Modulus of Rupture, psi</u> |               |                                 |
|------------------------------------|---------------|---------------------------------|
| At 2000°F (1093°C)                 | 1,500 - 1,800 | (105 - 126 kg/cm <sup>2</sup> ) |

| <u>Erosion Loss (ASTM C-704 Method)</u> |            |  |
|---|------------|--|
| After 1500°F (815°C)                    | 10 - 14 cc |  |

| <u>Thermal Conductivity (K Factor)</u> | <u>BTU/ft<sup>2</sup>/hr/°F/inch</u> | <u>W/mK</u> |
|--|--------------------------------------|-------------|
| Mean Temperature                       |                                      |             |
| 1000°F (538°C)                         | 9.4                                  | 1.36        |
| 1500°F (815°C)                         | 10.2                                 | 1.47        |
| 2000°F (1093°C)                        | 11.0                                 | 1.59        |

| <u>Typical Chemical Analysis (%)</u><br>(Calcined Basis) |      |  |
|--|------|--|
| Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....          | 47.0 |  |
| Silica (SiO <sub>2</sub> ) .....                         | 47.4 |  |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....       | 0.8  |  |
| Titania (TiO <sub>2</sub> ) .....                        | 1.6  |  |
| Lime (CaO) .....   | 2.9  |  |
| Magnesia (MgO) .....                                     | 0.1  |  |
| Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....       | 0.2  |  |

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

Brand Code: 1631

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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