



PRODUCT DATA

Brand Name: EZ CAST 3000

Description: EZ CAST 3000 is a Low Cement, 55% Alumina castable that can be installed by vibration cast, pumpcasting, or self-leveling methods.

Maximum Service Temperature: 3000°F (1649°C)

Dry Material Required per Cubic Foot : 145 - 147 lbs. (approximate)

Recommended Mixing Time: 5 minutes

Typical Water Required for Mixing (by weight) :

Vibration Casting	5.0%
Self-Flow	6.7%

Bulk Density (pcf)

Self-Flow Data

After 220°F (105°C) :	149	(2384 kg/m ³)
After 1500°F (815°C) :	150	(2400 kg/m ³)

Cold Crushing Strength (psi)

After 220°F (105°C) :	7,000	(490 kg/cm ²)
After 1500°F (815°C) :	9,000	(630 kg/cm ²)

Permanent Linear Change (%)

After 1500°F (815°C) : 0.0 to -0.2

Hot Modulus of Rupture, psi

At 2000°F (1093°C) : 2,000 to 3,000 (140 to 210 kg/cm²)

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 ² /hr/°F/inch	W/mK
1000°F (538°C) :	11.3	1.63
1500°F (815°C) :	13.0	1.87
2000°F (1093°C) :	14.3	2.06

Typical Chemical Analysis, % (Calcined Basis)

Alumina (Al ₂ O ₃)	56.0
Silica (SiO ₂)	38.4
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	1.8
Lime (CaO)	1.3
Magnesia (MgO)	0.4
Alkalis (Na ₂ O+K ₂ O)	1.1

Brand Code: 0812

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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