



PRODUCT DATA

Brand Name: EZ CAST 3400

Description: EZ CAST 3400 is a Low Cement, Silica-Free, High Purity Alumina Castable that is installed by self-leveling methods.

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

Dry Material Required per Cubic Foot : 185 - 190 lbs. (approximate)

Recommended Mixing Time: 5 minutes

Typical Water Required for Mixing (by weight) :

Self-Flow 6.0%

Bulk Density (pcf)

Self-Flow Data

| | | |
|------------------------|-----|---------------------------|
| After 220°F (105°C) : | 187 | (2992 kg/m ³) |
| After 1500°F (815°C) : | 185 | (2960 kg/m ³) |

Cold Crushing Strength (psi)

| | | |
|------------------------|-------|---------------------------|
| After 220°F (105°C) : | 6,000 | (420 kg/cm ²) |
| After 1500°F (815°C) : | 4,000 | (280 kg/cm ²) |

Permanent Linear Change (%)

After 1500°F (815°C) : 0.0 to -0.2

Hot Modulus of Rupture, psi

At 2700°F (1482°C) : 1,300 to 1,600 (91 to 112 kg/cm²)

Erosion Loss using ASTM C-704 Method

After 1500°F (815°C): 15 - 20 cc (typical)

Thermal Conductivity (using ASTM C1113)

| Mean Temperature | BTU/ft ² /hr/°F/inch | W/mK |
|-------------------|---------------------------------|------|
| 1000°F (538°C) : | 17.1 | 2.47 |
| 1500°F (815°C) : | 18.2 | 2.62 |
| 2000°F (1093°C) : | 18.7 | 2.70 |

Typical Chemical Analysis, % (Calcined Basis)

| | |
|----------------------------------------------------|------|
| Alumina (Al ₂ O ₃) | 98.7 |
| Silica (SiO ₂) | <0.1 |
| Iron Oxide (Fe ₂ O ₃) | <0.1 |
| Titania (TiO ₂) | <0.1 |
| Lime (CaO) | 1.1 |
| Magnesia (MgO) | <0.1 |
| Alkalis (Na ₂ O+K ₂ O) | 0.1 |

Brand Code: 0824

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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