



PRODUCT DATA

Brand Name: EZ CAST® 3250 TL0249

Description: EZ CAST® 3250 TL0249 is a Low Cement, 75% Alumina castable that can be installed by vibration cast or self-leveling methods. This castable is formulated to have a faster setting time.

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

Maximum Service Temperature: 3250°F (1788°C)

Dry Material Required per Cubic Foot : 170 lbs. (approximate)

Recommended Mixing Time: 5 minutes

Typical Water Required for Mixing (by weight) :

| | |
|-------------------------|------|
| Vibration Casting | 4.5% |
| Self-Leveling | 6.0% |

Bulk Density (pcf)

| | | |
|---------------------|-----|---------------------------|
| | | Self-Leveling Data |
| After 220°F (105°C) | 161 | (2.58 g/cm ³) |

Cold Crushing Strength (psi)

| | | |
|----------------------|-------|---------------------------|
| After 220°F (105°C) | 7400 | (518 kg/cm ²) |
| After 1500°F (815°C) | 11000 | (770 kg/cm ²) |

Permanent Linear Change (%)

| | |
|----------------------|-------------|
| After 1500°F (815°C) | 0.0 to -0.3 |
|----------------------|-------------|

Hot Modulus of Rupture (psi)

| | | |
|--------------------|-------------|---------------------------------|
| At 1500°F (815°C) | 2100 - 4100 | (147 - 287 kg/cm ²) |
| At 2500°F (1371°C) | 800 - 1000 | (56 - 70 kg/cm ²) |
| At 2700°F (1482°C) | 500 - 600 | (35 - 42 kg/cm ²) |

Thermal Conductivity (K Factor)

| | | |
|------------------|--------------------------------------|-------------|
| Mean Temperature | <u>BTU/ft²/hr/°F/inch</u> | <u>W/mK</u> |
| 1500°F (815°C) | 16.9 | 2.45 |
| 2000°F (1093°C) | 17.2 | 2.50 |
| 2500°F (1371°C) | 15.0 | 2.18 |

Typical Chemical Analysis(%)

(Calcined Basis)

| | |
|--|------|
| Alumina (Al ₂ O ₃) | 75.1 |
| Silica (SiO ₂) | 19.8 |
| Iron Oxide (Fe ₂ O ₃) | 1.0 |
| Titania (TiO ₂) | 2.7 |
| Lime (CaO) | 1.2 |
| Magnesia (MgO) | 0.1 |
| Alkalis (Na ₂ O+K ₂ O) | 0.1 |

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

Brand Code: 1547

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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