



PRODUCT DATA

Brand Name: FURNACUBED R-MAX

Description: FURNACUBED R-MAX is a aluminum-resistant, low cement 70% alumina castable. This castable should be installed by vibration casting methods. FURNACUBED R-MAX features high strength, high abrasion resistance, and excellent aluminum resistance.

Dry Material Required per Cubic Foot : 165 lbs. (approximate)

Recommended Mixing Time: 5 minutes

Typical Water Required for Mixing (by weight) :

Vibration Cast 4.3%

| | Vibration Cast Data | |
|---------------------------|---------------------|---------------------------|
| Bulk Density (pcf) | | |
| After 220°F (105°C) : | 165 | (2640 kg/m ³) |
| After 1500°F (815°C) : | 163 | (2608 kg/m ³) |

| | | |
|-------------------------------------|--------|----------------------------|
| Cold Crushing Strength (psi) | | |
| After 1500°F (815°C) : | 18,000 | (1260 kg/cm ²) |

| | | |
|------------------------------------|--------------|--|
| Permanent Linear Change (%) | | |
| After 1500°F (815°C) : | +0.2 to -0.2 | |

| | | |
|---------------------------------|------|-----------|
| ASTM C-704 Abrasion Test | | |
| After 1500°F (815°C), CC Loss | 8 cc | (maximum) |

Typical Chemical Analysis, % (Calcined Basis)

| | |
|--|------|
| Alumina (Al ₂ O ₃) | 66.2 |
| Silica (SiO ₂) | 23.6 |
| Iron Oxide (Fe ₂ O ₃) | 1.1 |
| Titania (TiO ₂) | 1.9 |
| Lime (CaO) | 1.9 |
| Magnesia (MgO) | 0.1 |
| Alkalis (Na ₂ O+K ₂ O) | 0.1 |
| Others | 5.1 |

Brand Code: 0582

Standard Packaging: 55 lbs bags, 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), 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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