



PRODUCT DATA

Brand Name:

RESCOMAG™ 85-C

Description: RESCOMAG 85-C is a burned magnesite-spinel kiln liner made of high purity, raw materials and a high content of spinel grain. RESCOMAG 85-C exhibits exceptionally good thermal shock, thermal conductivity and mechanical resistance. RESCOMAG 85-C is an ideal liner for the upper and lower transition zones of rotary cement kilns.

Physical properties shown are averages based on standard brick sizes.

ASTM test methods used where applicable

Bulk Density (pcf)

| | | |
|-------------|-----|---------------------------|
| As Received | 184 | (2.95 g/cm ³) |
|-------------|-----|---------------------------|

Cold Crushing Strength (psi)

| | | |
|----------------|------|---------------------------|
| At 70°F (21°C) | 6500 | (455 kg/cm ²) |
|----------------|------|---------------------------|

Thermal Expansion (1/°F)

| | | |
|-----------------|------|-------------|
| 752°F (400°C) | 0.22 | 0.40 (1/°C) |
| 1472°F (800°C) | 0.50 | 0.90 (1/°C) |
| 2192°F (1200°C) | 0.78 | 1.40 (1/°C) |

Thermal Conductivity (BTU/ft²/hr./°F/inch)

| | | |
|-----------------|------|------------|
| 572°F (300°C) | 27.7 | 4.0 (W/mK) |
| 1292°F (700°C) | 21.5 | 3.1 (W/mK) |
| 1832°F (1000°C) | 20.1 | 2.9 (W/mK) |

Apparent Porosity (%)

| | |
|-------------|------|
| As Received | 17.0 |
|-------------|------|

Typical Chemical Analysis (%)

(Calcined Basis)

| | |
|--|------|
| Magnesia (MgO) | 85.0 |
| Silica (SiO ₂) | 0.8 |
| Alumina (Al ₂ O ₃) | 12.0 |
| Iron Oxide (Fe ₂ O ₃) | 1.0 |
| Lime (CaO) | 1.2 |

Brand Code: 7471

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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