



## Brick

### Product Data

#### RESCOMAG 92

**RESCOMAG 92** is a burned magnesite-spinel brick kiln liner made of high purity, raw materials and a low content of synthetic, magnesia-alumina spinel grain.

**RESCOMAG 92** exhibits exceptionally good thermal shock and spall resistance and volume stability at high temperatures. **RESCOMAG 92** is an ideal liner for high wear areas of the lower transition zones of rotary cement kilns.

| <u>Physical Data: (Typical)</u>                  | <u>English Units</u>                    | <u>SI Units</u>                        |
|--|---|--|
| Fusion Point, PCE – ASTM C24                     | >40                                     |  |
| Bulk Density – ASTM C20                          | $\frac{\text{lb}}{\text{ft}^3}$<br>182  | $\frac{\text{g}}{\text{cm}^3}$<br>2.91 |
| Apparent Porosity – ASTM C20                     | 16.5%                                   |  |
| Modulus of Rupture – ASTM C133<br>At 70°F (21°C) | $\frac{\text{lb}}{\text{in}^2}$<br>1140 | $\frac{\text{MPa}}{7.9}$               |
| Crushing Strength – ASTM C133<br>At 70°F (21°C)  | 4970                                    | 34.3                                   |
| Thermal Expansion 2500°F (1400°C)                | 2.0%                                    |  |

#### Chemical Analysis: (Approximate) (Calcined Basis)

|                         |  |       |
|-------------------------|--|-------|
| Magnesia                | (MgO)  | 92.0% |
| Alumina                 | (Al <sub>2</sub> O <sub>3</sub> )                      | 5.8%  |
| Silica                  | (SiO <sub>2</sub> )                                    | 0.3%  |
| Iron Oxide plus Titania | (Fe <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> ) | 0.2%  |
| Lime                    | (CaO)  | 1.7%  |

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.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

2/5/2008 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet