



# PRODUCT DATA

**Brand Name:**

**R-MAX MP FIRED SHAPES**

**Description:**

R-Max MP Fired Shapes is 85% Alumina and offers high abrasion resistance along with high strength.

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

**Maximum Service Temperature: 3200°F (1760°C)**

**Bulk Density (pcf)**

As Received 173 (2.77 g/cm<sup>3</sup>)

**Modulus of Rupture (psi)**

At 70°F (21°C) 4000 (280 kg/cm<sup>2</sup>)

**Cold Crushing Strength (psi)**

At 70°F (21°C) 22,750 (1,600 kg/cm<sup>2</sup>)

**Thermal Conductivity (K Factor)**

Mean Temperature	BTU/ft <sup>2</sup> /hr./°F/inch	W/mK
500°F (260°C)	20	2.88
1500°F (815°C)	18.8	2.71

**Abrasion Loss (using ASTM C-704 Method)**

At 70°F (21°C) 3.0 cc

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	85.3
Silica (SiO <sub>2</sub> ) .....	8.7
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.8
Titania (TiO <sub>2</sub> ) .....	2.1
Lime (CaO) .....	2.8
Magnesia (MgO) .....	0.2
Alkalies .....	0.1

Brand Code: 2596

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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