



# PRODUCT DATA

Brand Name:

**MIX #39**

Description:

**CARTOP SHAPE**

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

**Maximum Service Temperature: 2450°F (1343°C)**

**Bulk Density (pcf)**

As Received 138 - 142 (2.21 - 2.27 g/cm<sup>3</sup>)

**Modulus of Rupture (psi)**

At 70°F (21°C) 1600 - 2000 (112 - 140 kg/cm<sup>2</sup>)  
After 6 Air Cycles (2250°F to 70°F) 55 - 65% Strength Retention

**Cold Crushing Strength (psi)**

At 70°F (21°C) 5000 - 8000 (350 - 560 kg/cm<sup>2</sup>)  
After 6 Air Cycles (2250°F to 70°F) 100% Strength Retention

**Apparent Porosity (%)**

As Received 19 - 22

**Coefficient of Thermal Expansion (Avg)**

From 70°F (21°C) to 1510°F (820°C) 2.3 (x 10<sup>-6</sup> in/in/°F) 4.2 (x 10<sup>-6</sup> cm/cm/°C)

**Hot Load Deformation (%)**

At 2500°F (1371°C) using ASTM C 546-67 -6.8  
At 2350°F (1288°C) for 100 hr, 25 psi -0.4

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	51.3
Silica (SiO <sub>2</sub> ) .....	43.9
Magnesia (MgO) .....	1.6
Lime (CaO) .....	0.1
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.2
Titania (TiO <sub>2</sub> ) .....	1.4
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.5

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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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02/23/17 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.

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