



## *Fired Shapes*

### *Product Data*

#### **PACO MIX #40**

<b><u>Pyrometric Cone Equivalent:</u></b>	cone 31-31-1/2 (3070°F)
<b><u>Bulk Density:</u></b>	139-143 lb/ft <sup>3</sup>
<b><u>Apparent Porosity:</u></b>	19 - 24%
<b><u>Modulus of Rupture:</u></b>	1400 - 1800 psi
<b><u>Cold Crushing Strength:</u></b>	3500 - 6000 psi
<b><u>Strength Retention:</u></b> After 6 cycles of Air Shock (2250°F to Room Temperature)	
Cold Crushing Strength	70%
Modulus of Rupture	35 - 45%
<b><u>Maximum Service Temperature:</u></b>	2500°F (Reducing)
<b><u>Coefficient of Thermal Expansion:</u></b> From room temp. to 1425°F (From room temp. to 775°C)	(Avg.) 3.1 x 10 <sup>-6</sup> in/in/°F (5.6 x 10 <sup>-6</sup> cm/cm/°C)
<b><u>Long Time Hot Load Test:</u></b> ASTM C 546-67 100 hrs., 25 psi	-7.7% @ 2600°F

#### **Typical Chemical Analysis(%)**

Al <sub>2</sub> O <sub>3</sub>	51.1
SiO <sub>2</sub>	45.5
Fe <sub>2</sub> O <sub>3</sub>	1.2
TiO <sub>2</sub>	1.3
MgO	0.6
CaO	0.1
K <sub>2</sub> O	0.2
Na <sub>2</sub> O	0.2

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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