

Product Name: BRP 60 X LITE RAM  
Product Number: BRP-13506

Product Description:

A 50% Alumina lightweight, phos-bonded vibratable ramming plastic.  
Recommended for applications where high temperature insulating capabilities are required.

Technical Data:

Physical Properties: (Typical) English Units SI Units

Maximum Recommended Temperature 2900°F 1595°C

lb/ft<sup>3</sup> g/cm<sup>3</sup>

Material Required 116 1.86

Permanent Linear Change, %

After 600°F (315°C) -0.5

After 1500°F (815°C) -0.5

After 2550°F (1400°C) +1.4

After 2800°F (1540°C) -0.2

Modulus of Rupture lb/in<sup>2</sup> MPa

After 600°F (315°C) 550 3.8

After 1500°F (815°C) 600 4.1

After 2550°F (1400°C) 800 5.5

After 2800°F (1540°C) 1000 6.9

Hot Modulus of Rupture

At 2500°F (1370°C) 170 1.2

Cold Crushing Strength

After 600°F (315°C) 3500 24.1

After 1500°F (815°C) 2500 17.2

After 2550°F (1400°C) 2200 15.2

After 2800°F (1540°C) 3300 22.8

Abrasion Loss

After 1500°F (815°C) 21.5 cm<sup>3</sup>

Particle Size

Retained on 10 Mesh Tyler Screen (1.70mm opening)

Wet Analysis Less Than 1%

102 Jayhawk Drive  
Jeannette, PA 15644  
Phone: 412-693-1005 Fax: 412-693-1009  
e-mail: bloomref.com

Thermal Conductivity

At a mean Temperature of Btu in/hr ft<sup>2</sup> °F W/m °C

800°F (425°C) 5.0 0.72

1200°F (650°C) 4.9 0.71

1600°F (850°C) 5.8 0.83

Chemical Analysis: (Approximate)

(Calcined Basis)

Silica (SiO<sub>2</sub>) 37.7%

Alumina (Al<sub>2</sub>O<sub>3</sub>) 51.5

Titania (TiO<sub>2</sub>) 1.0

Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>) 1.1

Lime (CaO) 0.2

Magnesia (MgO) 0.3

Phosphorous Pentoxide (P<sub>2</sub>O<sub>5</sub>) 7.3

Alkalies (Na<sub>2</sub>O+K<sub>2</sub>O) 0.9