

PRODUCT  
**SAVAGE RAM 85**

PHOSPHATE BONDED HIGH ALUMINA PLASTIC

# REFRACTORIES

## TECHNICAL DATA

### PHYSICAL PROPERTIES

Maximum Service Temperature	3300°F - 1816°C
ASTM C-673	85% Alumina Class
Lbs. Required Per Cu. Ft.	185 lbs.
Bulk Density After Drying at 230°F	174 lbs./cu.ft.
MOR After Heating to 1500°F	1650 psi
MOR After Heating to 2550°F	1800 psi
MOR After Heating to 2910°F	2130 psi

### Permanent Linear Change

After Drying at 230°F	0.0 to -0.5%
After Heating to 1500°F	-0.1 to -0.5%
After Heating to 2910°F	-0.3 to -1.0%

### CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	8.0%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	86.0%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.9%
Phosphorous Pentoxide	[P <sub>2</sub> O <sub>5</sub> ]	3.6%

### THERMAL CONDUCTIVITY BTU/SQ.FT./HR./°F/IN.

At 500°F	19.0
At 1500°F	12.5
At 2000°F	12.0

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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