



# ALL-AMERICAN SUPPLY

*High-Tech Materials From The Outer Reaches  
Of Space to the Depths of the Ocean*

Solar-Aero Space-Weapons-Nuclear  
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## EMERALD RAM® HS PLASTIC

**EMERALD RAM® HS Plastic** is a premium alumina-chrome product which is phospho-bonded. Its unsurpassed resistance to acid and neutral as well as basic slags allows it to survive the most severe corrosive/erosive environments.

**TEMPERATURE CLASSIFICATION: 800-3400°F**

**MATERIAL REQUIRED PER CUBIC FOOT: 200 LBS.**

**PYROMETRIC CONE EQUIVALENT: 40**

### PHYSICAL PROPERTIES:

Test Temp (°F)	Bulk Density(pcf)	Modulus of Rupture (psi)	Permanent Linear Change (%)	Thermal Conductivity (Btu in./hr.sqft/°F)
230	191	1360	--	--
500	--	--	--	20.0
1000	--	--	-0.2	17.5
1500	--	--	--	15.8
2000	--	--	--	14.2
2550	--	3820	-0.3	--
2910	--	3490	-0.5	--

### CHEMICAL ANALYSIS – CALCINED BASIS (Wt %):

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	Other
87.1	1.5	3.2	7.6	0.6

Manufactured by Vesuvius USA.