



NAME of MATERIAL: CARORAM 85 PB

A high purity, high alumina, chemically bonded plastic refractory. CARORAM 85 PB exhibits high hot strengths throughout the temperature range. High density and low porosity make it resistance to ferrous and non-ferrous metal penetration and corrosive slags. Typical application include hearths of reheat furnace hearths, soaking pit lower sidewalls and bottoms, forge furnace hearths, and lower sidewalls, hearths, and ramps of aluminum melting, holding and holding furnaces.

Service Temperature.....3300° F
 Melting Point.....3375° F

<u>Test Temperature</u>	<u>Modulus of Rupture, psi</u>	<u>Cold Crushing Strength, psi</u>	<u>Linear Change %</u>
220° F	600 – 800	2000 – 2400	-0.2
1500° F	550 – 650	1900 – 2300	-0.2
2000° F	950 – 1400	3100 – 3800	-0.1
2500° F	1200 – 1600	4100 – 4600	-0.4
3000° F	1300 – 1500	3900 – 4300	-0.7

Chemical Analysis

Alumina	(Al ₂ O ₃)	84.6%
Silica	(SiO ₂)	6.5%
Iron Oxide	(Fe ₂ O ₃)	2.1%
Titania	(TiO ₂)	2.2%
Magnesia	(MgO)	0.3%
Lime	(CaO)	0.2%
Phosphorous Pentoxide	(P ₂ O ₅)	3.9%

Material required per cubic foot: 180 pounds
 Packaged in 50 pound cartons, 72 cartons per pallet (3600 pounds).