



**NAME of MATERIAL:** CARORAM 70 PB

CARORAM 70 PB is a high alumina, chemically bonded plastic refractory. CARORAM 70 PB exhibits high strength and volume stability throughout its temperature range. It is used where resistance to slagging, spalling and abrasion is required. Applications include soaking pit sidewalls, bottoms, aluminum melting, holding furnaces, ladle linings and patching in rotary kilns.

Service Temperature.....3150° F  
 Melting Point.....3250° F

<u>Test Temperature</u>	<u>Modulus of Rupture, psi</u>	<u>Cold Crushing Strength, psi</u>	<u>Linear Change %</u>
220° F	300 – 400	1100 – 1500	-0.2
1500° F	600 – 700	2000 – 2400	-0.1
2000° F	650 – 750	2200 – 2700	-0.1
2500° F	950 – 1050	3200 – 4000	+0.7
3000° F	1250 – 1350	4500 – 5500	+1.6

**Chemical Analysis**

Alumina	(Al <sub>2</sub> O <sub>3</sub> )	69.4%
Silica	(SiO <sub>2</sub> )	22.5%
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	1.7%
Titania	(TiO <sub>2</sub> )	2.3%
Magnesia	(MgO)	0.3%
Lime	(CaO)	0.1%
Phosphorous Pentoxide	(P <sub>2</sub> O <sub>5</sub> )	3.4%

Material required per cubic foot: 170 pounds  
 Packaged in 50 pound cartons, 72 cartons per pallet (3600 pounds).