



**CARORAM 85 PB**

**2020**

**CARORAM 85 PB** is 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 resistant to ferrous and non-ferrous metal penetration and the effect of corrosive slags. Typical applications include hearths of reheat furnaces, soaking pit lower sidewalls and bottoms, forge furnace hearths, and lower sidewalls, hearths and ramps of aluminum melting and holding furnaces.

Maximum recommended service temperature..... 3200°F

Melting Point..... 3350°F

<u>Test Temperature</u>	<u>Modulus of Rupture,</u> <u>p.s.i.</u>	<u>Cold Crushing,</u> <u>p.s.i.</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 <sub>2</sub> O <sub>3</sub> ) .....	84.6
Silica (SiO <sub>2</sub> ) .....	6.5
Iron (Fe <sub>2</sub> O <sub>3</sub> ) .....	2.1
Titania (TiO <sub>2</sub> ) .....	2.2
Lime (CaO).....	0.2
Magnesia (MgO).....	0.3
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ).....	3.9

Material required for estimating – 178 lbs./ft<sup>3</sup>

Packaged in 50-pound cartons, seventy-two cartons per pallet (3600 pounds)