



**CARORAM 45 PB**

**2020**

**CARORAM 45 PB** is a super duty, chemically bonded plastic refractory. Used where increased strength, refractoriness and resistance to slag attack are desired. Good handling characteristics. Superior performance over conventional super duty plastics.

Maximum recommended service temperature..... 3000°F

Melting Point..... 3150°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	150 – 200	500 – 800	-0.3
1500°F	300 – 400	1000 – 1400	-0.7
2000°F	450 – 550	1000 – 1400	-0.4
2500°F	700 – 1000	2300 – 2800	+0.2
3000°F	800 – 1000	2500 – 3500	+0.5

**Chemical Analysis (%)**

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	45.6
Silica (SiO <sub>2</sub> ) .....	46.1
Iron (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.5
Titania (TiO <sub>2</sub> ) .....	1.8
Lime (CaO).....	1.1
Magnesia (MgO).....	0.4
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ).....	3.5

Material required for estimating – 148 lbs./ft<sup>3</sup>

Packaged in 90-pound cartons, thirty-six cartons per pallet (3240 pounds)