



**CARORAM 48**

**2020**

**CARORAM 48** is a super duty, heat setting, plastic refractory. CARORAM 48 has excellent resistance to thermal spalling and mechanical shock, while its volume stability and excellent load bearing properties give it distinct advantages in a variety of high temperature applications. Some of these are upper sidewalls in aluminum melting and holding furnaces, boiler linings, soaking pit sidewalls and linings in forge furnaces, forehearth ladles, incinerators, combustion chambers, heaters, and dryers.

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

Melting Point..... 3125°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	100 – 200	400 – 800	-0.5
1500°F	150 – 200	550 – 850	-0.4
2000°F	350 – 450	1100 – 1500	-0.6
2500°F	500 – 550	1800 – 2200	+0.5
3000°F	1000- 1200	3200 – 4200	+1.3

**Chemical Analysis (%)**

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	45.6
Silica (SiO <sub>2</sub> ) .....	48.8
Iron (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.4
Titania (TiO <sub>2</sub> ) .....	1.8
Lime (CaO).....	0.1
Magnesia (MgO).....	0.1

Material required for estimating – 145 lbs./ft<sup>3</sup>

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