



**NAME of MATERIAL:** CARORAM 48 AS

CARORAM 48 AS is a super-duty, air-setting plastic refractory. 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, linings in forge furnaces, forehearth ladles, incinerators, combustion chambers, heaters and dryers.

Service Temperature.....3000° F  
 Melting Point.....3125° F

<u>Test Temperature</u>	<u>Modulus of Rupture, psi</u>	<u>Cold Crushing Strength, psi</u>	<u>Linear Change %</u>
220° F	200 – 300	400 - 800	-0.5
2000° F	350 - 450	1100 - 1500	-0.6
2500° F	500 - 550	1800 - 2200	+0.3
2910° F	1000 - 1200	3200 - 4200	+1.5

**Chemical Analysis**

Alumina	(Al <sub>2</sub> O <sub>3</sub> )	48.8%
Silica	(SiO <sub>2</sub> )	46.6%
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	1.4%
Titania	(TiO <sub>2</sub> )	1.8%
Magnesia	(MgO)	0.1%
Lime	(CaO)	0.1%

Material required per cubic foot: 145 pounds  
 Packaged in 50 (fifty) pound cartons, 72 (seventy-two) cartons per pallet