



**CLAYBURN INDUSTRIES LTD.**

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## TECHNICAL DATA

### CLAYBURN PLASTIC 80 SIC

CLAYBURN PLASTIC 80 SIC is a very high silicon carbide, phosphate bonded plastic. It was specifically developed for reducing conditions on the studded water tube walls of boilers. The high silicon carbide content gives CLAYBURN PLASTIC 80 SIC very high thermal conductivity and slag resistance.

**SERVICE TEMPERATURE:** 3100°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 168 lbs./cu. ft.

### TYPICAL CHEMICAL ANALYSIS (Reducing Conditions)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	CaO	SiC	Alkalies	P <sub>2</sub> O <sub>5</sub>
11.8	4.9	0.3	0.1	0.1	0.0	79.9	0.2	3.4

### TYPICAL PHYSICAL PROPERTIES (Reducing conditions above 250°F)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	863	2,211	-0.4
2000	1379	2,897	+0.3

**ABRASION LOSS AFTER FIRING TO 1500°F:** 7 cc  
**THERMAL CONDUCTIVITY:** 44 BTU in/hr ft<sup>2</sup> °F @ 1750°F

247320 - 8/12/04

The data represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specifications.