



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN FIRECAST 80 SIC JC

CLAYBURN FIRECAST 80 SIC JC is a silicon carbide, one component, no cement refractory designed to be installed by shotcreting. Quick installation, dry-out and thermal shock resistance are features of this product. **CLAYBURN FIRECAST 80 SIC JC** is recommended for use in applications where heat transfer, rapid heat-up, and thermal shock resistance are required.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs./cu. ft.
WATER ADDITION: 6-7 %

TYPICAL CHEMICAL ANALYSIS
(Calcined Basis)

SiC	Al ₂ O	SiO ₂	Fe ₂ O ₃	Alkalies	C	Other
74-76	15	10	0.1	0.4	0.4	0.1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	600 - 700	2000 - 2900	-0.4
1500	900 - 1000	3100 - 3500	+0.6
2500	1200 - 1500	4000 - 5000	-0.3

ABRASION LOSS (400°F): 8 cc
ABRASION LOSS (1500°F): 11 cc

177320 – 7/12/04

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.