

Silicon Carbide Products

SCProbond™-N

Silicon Nitride Bonded Silicon Carbide

(Typical abbreviations: SNBSC, NBSC, NBSiC)

Severe abrasive wear & corrosion applications including high temperatures

Applications

- Cyclones
- Transitions
- Liners
- Chutes
- Wear blocks
- Pump components
- Impellers
- Spray nozzles
- Centrifuge components
- Coal preparation applications
- Coal handling components



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Property	Units	Value
Density	g/cc	2.60-2.72
	lb/ft ³	162-169
Apparent porosity	%	13-16
Abrasion loss (volumetric) C704 ASTM	cc	2.29
Modulus of rupture 3 point loading	MPa	65.5
	psi	9500
Coefficient of thermal expansion (@ 1200° C)	x10 ⁻⁶ /°C	4.9
	x10 ⁻⁶ /°F	2.7
Thermal Conductivity	W/m°K	18
Maximum safe operating temperature (Dependant upon atmosphere)	°C	1525
	°F	2777

This information is for your consideration and verification and should not be considered a warranty or representation for which we assume legal responsibility.



361 Daniel Zenker Drive • Horseheads, NY 14845 USA
Phone: 607-562-8599 • Fax: 607-562-7585
www.scpbond.com • E-mail: scp@scpbond.com