

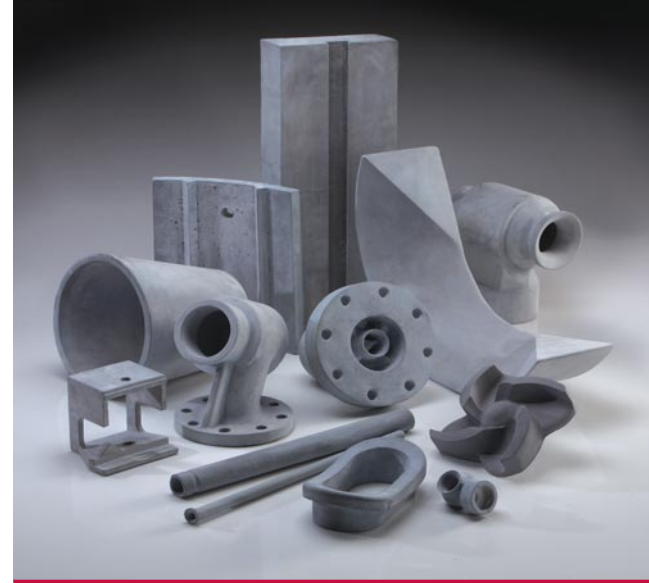
SCProbond™ N Silicon Nitride Bonded Silicon Carbide

(Typically called nitride bonded silicon carbide;
typical abbreviations: SNBSC, NBSC, NBSIC)

SCProbond™ N is characterized by excellent wear properties in severe industrial environments. It exhibits good resistance to high temperatures even in demanding abrasive applications and has better impact resistance than most silicon carbide grades. Due to its unique properties and ability to be cast into final shape, this cost-effective grade is widely used as a workhorse in coal-fired power plants and in mining for bulk material handling and protective linings, as well as for non-ferrous molten metal contact.

Typical Applications

Ash handling sweeps
Centrifuge components
Chutes
Coal handling components
Coal preparation applications
Cyclones
Frac sand sweeps, elbows,
valve body liners
Impellers
Liners
Molten metal pump protective sleeves
Pump components
Reactor liners
Spray nozzles
Transitions
Wear blocks



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

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



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