

SCProbond™ N

Nitride Bonded Silicon Carbide

(Typical Abbreviations: SNBSC, NBSC, NBSIC)

Description: 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.

Ordering Information: Part Number: SCProbond™ N

Physical Properties:

Property	Unit	Value
Density	g/cc	2.60-2.72
	lb/ft ³	162-169
Apparent Porosity	%	13-16
C704 Abrasion Loss (volumetric)	cc	1.77
Modulus of Rupture 3 Point Loading	MPa	65.5
	psi	9500
Maximum safe operating temperature (Dependent upon atmosphere)	°C	1525
	°F	2777
Thermal Conductivity	W/m°K	18
Coefficient of Thermal Expansion @ 1200°C	X10 ⁻⁶ /°C	4.9
	X10 ⁻⁶ /°F	2.7



Silicon Carbide Products, LLC
361 Daniel Zenker Drive
Horseheads, New York 14845 USA
Telephone: +1-607-562-8599
Fax: +1-607-562-7585
Email: scp@scprobond.com



SCProbond™ N

Nitride Bonded Silicon Carbide

(Typical Abbreviations: SNBSC, NBSC, NBSIC)

Typical Applications

Micronizers

Ash Handling Sweeps

Centrifuge Components

Chutes

Coal Handling Components

Coal Preparation Applications

Molten Metal Pump Protective Sleeves

Frac Sand Sweeps, Elbows, Valve Body Liners

Refractory

Liners

Cyclones

Pump Components

Spray Nozzles

Transitions

Wear Blocks

Impellers

Complex custom shapes

WARRANTY AND DISCLAIMER

Silicon Carbide Products, LLC. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. Silicon Carbide Products, LLC. shall be in no way responsible for the proper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

11/30/2017



Silicon Carbide Products, LLC
361 Daniel Zenker Drive
Horseheads, New York 14845 USA
Telephone: +1-607-562-8599
Fax: +1-607-562-7585
Email: scp@scprobond.com

