

SILICON CARBIDE PRODUCTS

C.B.P. Engineering Corp., 185 Plumpton Avenue, Washington, PA 15301 USA
Tel: 800-468-1180 Fax: 724-229-1185
Email: info@cbpengengineering.com URL: www.cbpengengineering.com

C.B.P. offers two types of Silicon Carbide products:

- *Nitride Bonded Silicon Carbide (NBSiC)*
- *Fine Grain Reaction Bonded Silicon Carbide (RBSN)*

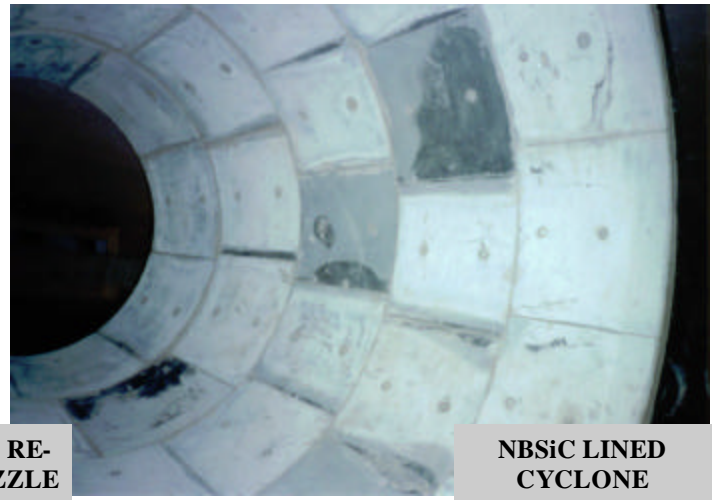
Silicon Carbide is cast into complex shapes that withstand extreme temperatures, and thermal shock. Silicon Carbide parts exhibit excellent abrasion resistance in fine particle, high velocity applications.

C.B.P. ENGINEERING CORP.

DESIGN * MANUFACTURING * INSTALLATION
ABRASION-RESISTANT CONVEYING AND MATERIALS HANDLING SYSTEMS
A subsidiary of The Greenbank Group, Inc.



NBSiC FLY ASH RE-INJECTION NOZZLE



NBSiC LINED CYCLONE

The benefits of silicon carbide parts include:

- Casting allows for complex shape production
- Abrasion, temperature, and thermal shock resistant
- Operating temperature higher than most wear resistant ceramics

NBSiC is generally used in moderate to high wear areas.

RBSN is used in extreme temperature very high wear areas.

C.B.P. Engineering supplies replacement liners for all O.E.M. cyclones and burners.

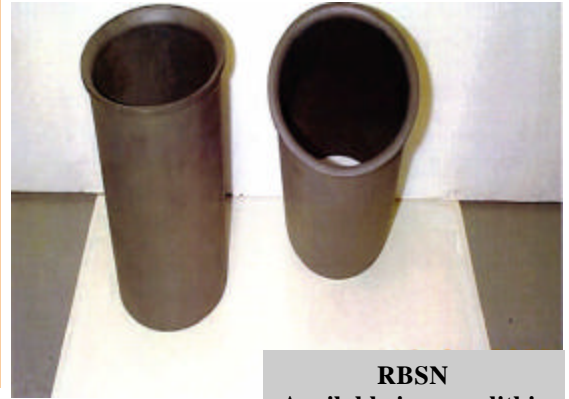
CBP
ENGINEERING
CORP
DELIVERING SOLUTIONS

Delivering Solutions

Sil icon car bide pr oduct s

Applications for Silicon Carbide

- P.F. Burners
- Cyclone parts
- Exhauster bullnoses
- Wet & dry spray nozzles
- Monolithic pipe linings
- Duct liners



RBSN
Available in monolithic
and complex shapes



PHYSICAL PROPERTY DATA		
Property	Nitride Bonded Silicon Carbide (NBSiC)	Reaction Bonded Silicon Carbide (RBSN)
Bulk Density (g/cc)	2.64	3.0
Porosity (%)	10.7 %	0 %
Thermal Expansion ($\times 10^{-7}$ in/in/ $^{\circ}$ C)	44	45
Max. Temperature	2800 $^{\circ}$ F	2700 $^{\circ}$ F

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