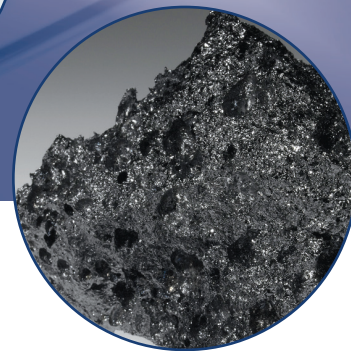
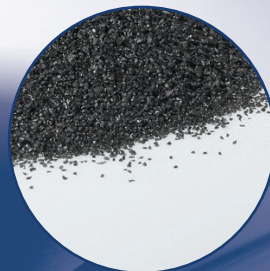
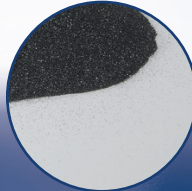


BORON CARBIDE



General Inquiries

North & South America

Tel: 1-800-828-1666

Europe

Tel: +44(0)161-848-0271

info@washingtomills.com

www.washingtomills.com

Washington Mills

North Grafton, Inc.

P.O. Box 428

20 North Main Street

North Grafton, MA 01536

Tel: 508-839-6511

Fax: 508-839-7675

Email: info@washingtomills.com

Washington Mills

Electro Minerals Corp.

P.O. Box 423

1801 Buffalo Avenue

Niagara Falls, NY 14302

Tel: 716-278-6600

Fax: 716-278-6650

Email: info@washingtomills.com

Washington Mills

Electro Minerals Corp.

P.O. Box 1002

7780 Stanley Avenue

Niagara Falls, Ontario L2E 6V9 Canada

Email: info@washingtomills.com

Washington Mills

Tonawanda, Inc.

1000 E. Niagara Street

Tonawanda, NY 14150

Email: info@washingtomills.com

Washington Mills

Electro Minerals Ltd.

Mosley Road, Trafford Park

Manchester M17 1NR England

Email: info@washingtomills.com

Washington Mills Hennepin, Inc.

13230 Prairie Industrial Parkway

Hennepin, IL 61327

Email: info@washingtomills.com

Washington Mills AS

NO-7300

Orkanger, Norway

Email: wmas@washingtomills.no

DESCRIPTION

BORON CARBIDE is one of the hardest man-made materials available in commercial quantities that has a finite melting point low enough to permit its relatively easy fabrication into shapes.

APPLICATIONS

BORON CARBIDE, due to its high hardness, chemical inertness, and high neutron absorption cross section, is well suited to a variety of industrial applications including:

- Wear parts such as blasting nozzles, wire-drawing dies, powdered metal and ceramic forming dies, thread guides, and armor.
- Abrasives for lapping and ultrasonic cutting.
- Nuclear applications such as reactor control rods and neutron absorbing shielding.
- Anti-oxidant in carbon-bonded refractory mixes.

BORON CARBIDE is graded to FEPA specifications.

TYPICAL CHEMICAL ANALYSIS

	High Purity
Total Boron	Min. 76.5%
Total Carbon	21.5%
Total B + C	Min. 98.0%
Iron	.2%

TYPICAL PHYSICAL PROPERTIES

Crystallography	Rhombohedral
Color	Black
Specific Gravity	2.52
Knoop ₁₀₀ Hardness	2800
Shape	Blocky – Angular
Melting Point	2350° C
Grading	Grain: FEPA 42-1:2006, Powder: FEPA 42-2:2006

GRAIN SIZES AVAILABLE

8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, and 220

POWDER SIZES AVAILABLE

240, 280, 320, 400, 500, 600, 800, and 1000

Also available in group-grades, for specific customer requests.

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.