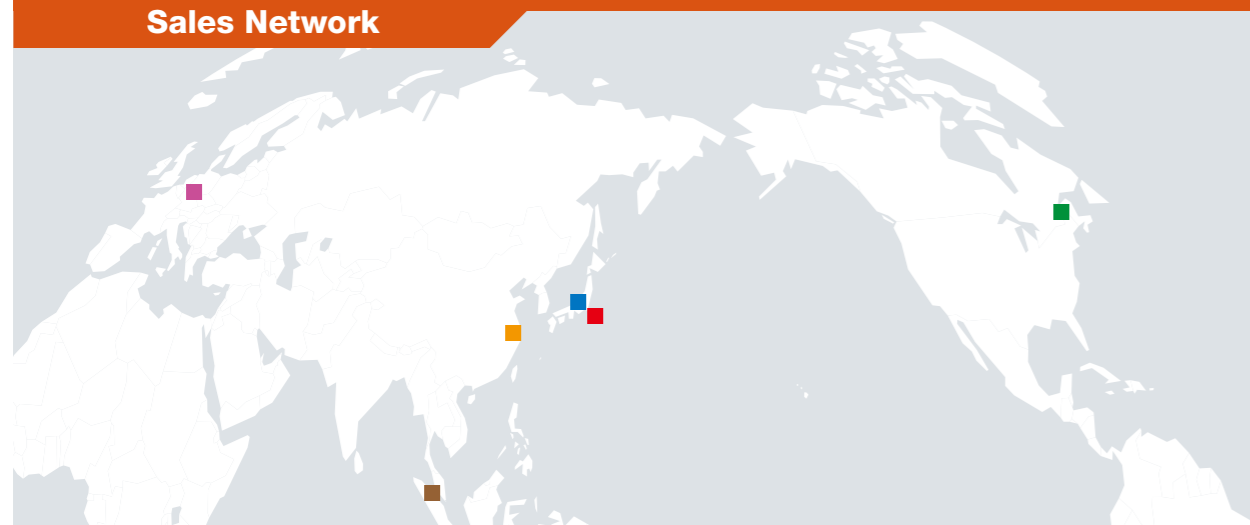


Sales Network



Asia Area	www.sdk.co.jp
■ Japan Head Office : Marketing Department 1, Abrasives & Super-Abrasives Sales Group 8, Ebisu-cho, Kanagawa-ku, Yokohama, Kanagawa, 221-8517 Japan TEL : +81-45-453-5122 FAX : +81-45-453-5645	
■ Operation · R&D Site : Shiojiri Plant 1, Oaza Soga, Shiojiri, Nagano, 399-6461 Japan TEL : +81-263-52-0180	
■ China Office : Showa Denko (Shanghai) Co., Ltd. 18F, Wangwang Building, No.211 Shimem Yi Road, Jingan, Shanghai, 200041, P.R.China TEL : +86-21-6217-5000 www.sdsh-showadenko.com	
■ Singapore Office : Showa Denko Singapore (Pte.) Ltd. 2 Shenton way, #15-03/04 SGX Centre 1, Singapore 068804 TEL : +65-6223-1889 www.showadenkohd.com.sg	
Europe Area	ceramics@sde.de
■ Showa Denko Europe GmbH Konrad-Zuse-Platz 3, 81829 Munich, Germany TEL : +49-89-9399-620 www.showa-denko.com	
Americas Area	ceramics-order@showadenko.us
■ Showa Denko America, Inc. 420 Lexington Avenue, Suite #2335A, New York, NY 10170, U.S.A. TEL : +1-212-370-0033 www.showadenko.us	

CBN

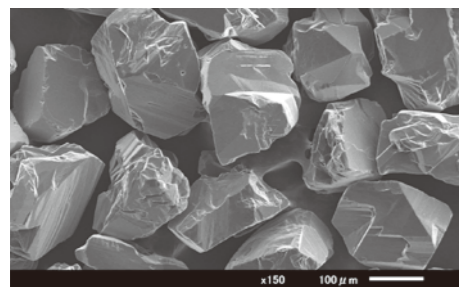
Cubic Boron Nitride Abrasives

Showa Denko Cubic Boron Nitride Abrasives

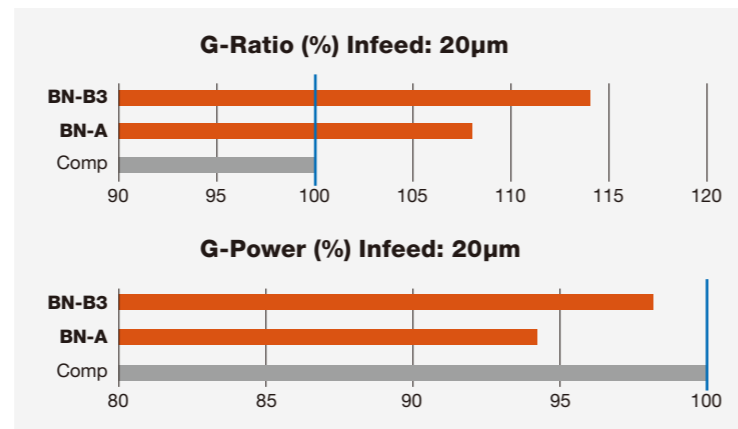
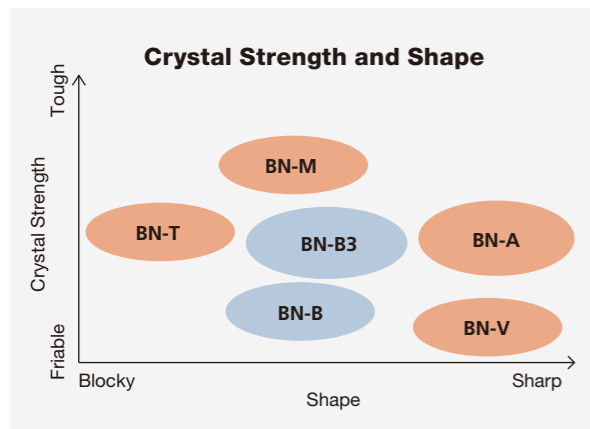
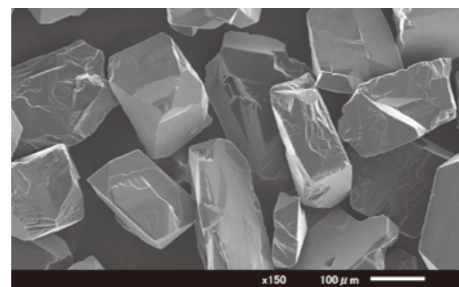
Non-Coated CBN

Image	Grade	Color	Property
	New BN-B3	Black	<ul style="list-style-type: none"> High toughness and sharp edges Improved version of BN-B; Fewer impurities and better fracture resistance For vitrified wheel for camshaft and bearing
	New BN-A	Amber	<ul style="list-style-type: none"> High toughness and sharp edges for low power grinding Improved version of BN-V; Better fracture resistance For vitrified wheel for camshaft, crankshaft, and bearing
	BN-B	Black	<ul style="list-style-type: none"> Medium toughness and moderately sharp edges For vitrified wheel
	BN-V	Amber	<ul style="list-style-type: none"> Medium toughness and sharp edges For vitrified wheel and low power grinding
	BN-F	Black	<ul style="list-style-type: none"> Friable particle excellent in truing and dressing For vitrified wheel for super finishing and raw material of PCBN
	BN-T	Amber	<ul style="list-style-type: none"> High toughness and blocky shape Stable cutting edges for precision grinding For gear grinding
	BN-M	Amber	<ul style="list-style-type: none"> Highest toughness and moderately sharp edges For high load grinding For electroplated and metal bonded wheel

BN-B3 SEM



BN-A SEM



* The results above are representative, not guaranteed.

Coated CBN

Image	Grade	Coating	Property
	BN-KN	Ni-Coating (60%)	<ul style="list-style-type: none"> Spiky coating with BN-B Unique coating enhances abrasive retention For resinoid wheel
	New BN-B3N		<ul style="list-style-type: none"> Spiky coating with BN-B3 Better fracture resistance than BN-KN For resinoid wheel
	New BN-AN		<ul style="list-style-type: none"> Spiky coating with BN-A Better sharpness than BN-KN For resinoid wheel

※BN series suppliable size: 60/80~325/400.

Micron Size

Showa Denko's micron size CBN abrasives have a high reputation due to controlled uniformity of size and shape. The products have especially high performance as a raw material of PCBN and various grinding tool applications.

Suppliable size

Size (μm)	Internal Name	Grade					
		BN-B	BN-F	BN-T	BN-KN	BN-B3N	BN-AN
36 - 54	G-45	○	○	○	○	○	○
30 - 40		○	○	○	○	○	○
22 - 36	G-30	○	○	○	○	○	○
20 - 30		○	○	○	—	—	—
15 - 25		○	○	○	—	—	—
12 - 22	G-15	○	○	○	○	○	○
8 - 15		○	○	—	—	—	—
8 - 12	G-9	○	○	○	○	○	○
5 - 10		○	○	—	—	—	—
4 - 8	G-6	○	○	○	—	—	—
3 - 6		○	○	○	—	—	—
2 - 6		○	—	—	—	—	—
2 - 4	G-3	○	○	○	—	—	—
1 - 3		○	○	—	—	—	—
1/2 - 2		○	○	○	—	—	—
0 - 2	G-1	○	○	○	—	—	—
0 - 1	G-1/2	○	○	○	—	—	—