

Boron Nitride Powder Grades AC6028, AC6103, and AC6091

Momentive Performance Materials' boron nitride (BN) powder grades AC6028, AC6103, and AC6091 are large applomerates of well-defined individual ($\sim 10 \mu m$) crystals. These low-to-medium-density grades are processed to achieve tailored surface areas; they are pourable and exhibit good lubrication and thermal conductivity properties in finished products.

AC6028

AC6028 has an average particle size in the range of 100-150 μ m and a surface area of 3.6 m2/g.

AC6103

AC6103 has a larger particle size of 250 µm and a higher surface area than AC6028.

AC6091

size to AC6028 AC6091 is similar in particle (average particle size of 125 µm), but is refined to achieve a lower surface area and higher tap density.

Applications

These grades are ideal for use in thermal spray applications as well as metal-matrix and ceramic composites for wear applications such as high-performance brake linings. They are also used in heating elements and adhesives, pastes, and potting compounds with increased thermal conductivity and high electrical resistivity.

Momentive Performance Materials produces over 75 standard and custom grades of BN powders to meet a wide range of application requirements, and has over 40 years of expertise in the synthesis and refinement of boron nitride powders.

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General Characteristics of Boron Nitride

- Electrical Insulator
- Low Dielectric Constant and Loss
- **High Temperature Stability**
- Thermal Conductor
- Lubricious
- Inert
- Non-Wetting

Elemental

Ca, Si	t)
Cu, Al, Mg, Fe, K	t)
Cl, S<50 ppm (per elemen	t)
Na<20 pp	m
Other Metals	h

Shanghai Ping Yiao Trading Co.,Ltd

Typical Properties	Grade	Grade	Grade	Screen Sizing Analysis Grade Grade Grade Grade					
Crystal (type)	AC6028 Hexagonal	AC6103 Hexagonal		Screen	AC6028	AC6103	AC6091		
Calar	(Graphitic)	(Graphitic)		+40	0	0.1	0		
Color	White	White	White	-40/+80	0.1	72.3	0		
Mean Particle Size, µm	100-150	250	125	-80/+100	35.3	6.0	8.6		
Crystal Size, µm	10	10	10	-100/+150	45.0	10.5	67.1		
Surface Area, m ² /g	3.2	6.5	1.4	-150/+200	10.9	5.2	16.4		
Tap Density, g/cc	0.7	0.55	1.0	-200/+325	3.1	1.7	1.3		
Oxygen, %	0.3	0.3	0.3	-325	5,5	4.3	6.4		
Sol. Borate, %	0.2	0.1	0.1		20				
Carbon, %	0.05	0.05	0.05		()·				
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