

BO 301 - 307
Boron Carbide Powder

BO 301 - 307	
Formula	B ₄ C
Purity	77% B, 23%C
Particle sizes Available	100 grit – 1500 grit

Chemistry			
Element	Typical results	Element	Typical result
B	77	C	23
B ₂ O ₃	0.10	Fe	0.10 max
Si	0.01	B ₄ C	99% min

Sizes available All sizes from 100 mesh to <2500 mesh					
Grit	Mesh	Microns	Grit	Mesh	Microns
100	100-140	150-106	120	100-170	125-90
150	140-230	106-63	180	170-270	90-53
220	200-325	75-45	240	200-500	70-28
280	230-500	59-22	320	270-1250	49-16
360	325-1250	40-12	400	400-1250	32-8
500	625-2500	25-5	600	625-2500	19-3
800	1250-2500	14-2	1000	1250-2500	10-1
1200	1250-2500	7-1	1500	<2500	<5



Boron Carbide is a high-performance abrasive material with chemical and physical properties like diamonds, such as, chemical resistance and hardness. Boron carbide's extra hardness gives it the nickname "Black Diamond" (It ranks third after diamond and boron nitride) and is one of the leading grinding materials. It is used in the following applications: grinding, lapping, polishing, hot pressing, sintering, body armor, refractories, solid rocket fuel, neutron absorber, additive for diamond tools, modifying steel, and boronizing.