

BORON CARBIDE DATA SHEET

DAMO-abrasives

BC-A	For Abrasives application
BC-R	For Refractory application

Chemical Composition		
	Specification (%)	Typical (%) F220
B2O3		0.24
Free Boron		0.39
Boron Compound		79.04
Total: Boron:	75 - 80	79.43
Free Carbide		1.67
Carbide Compound		17.93
Total Carbide	17 - 21	19.60
Fe2O3		0.14
Si		.027
BC	>95	96.97

Physical Properties	
Color	Black
Specific Gravity	2.52 g/cm ³
Hardness	9.4 Mohs
Micro-hardness	5400 – 6300 kg/mm ²
Melting point	2450 C

Grains size distribution					
Grain size		Micro Grain size		For Refractory grain size	
Grit No.	Size (um)	Grit No.	Size (um)	Grit No.	Size (um)
60#	250	F230	53-63	40 - 120	100-350
70#	212	F240	50-63	60 - 150	60-250
80#	180	F280	40-50	100F	-150
90#	150	F320	28-40	140F	-100
100#	125	F360	20-28	200F	-75
120#	106	F400	14-20	325F	-44
150#	75-90	F500	10-14	-25um	-25
180#	63-75	F600	7-10	-10um	-10
220#	53-63	F800	5-7		
		F1000	3.5-5		
		F1200	2.5-3.5		

Packing by 20kg bag, or 20kg drum, 50 to 1mt pallet.