

Boron Carbide Data Sheet

Grit No	Basic Grain(um)	Chemical Component					
		Total B	Total C	Content			
F60	250	77-80	17-21	96-98			
F70	212						
F80	180						
F90	150						
F100	125						
F120	106						
F150	75						
F180	75-63	76-79		17-21	95-97		
F220	63-53						
F230	53+/-3.0						
F240	44.5+/-2.0	75-79			17-21	95-96	
F280	36.5+/-1.5						
F320	29.2+/-1.5						
F360	22.8+/-1.5						
F400	17.3+/-1.0	74-78				17-21	94-95
F500	12.8+/-1.0						
F600	9.3+/-1.0						
F800	6.5+/-1.0	74-78		17-21			91-94
F1000	4.5+/-0.8						
F1200	3.0+/-0.5						
F1500	< 5	76-81					17-21
60# - 150#	250-75						
46# 120#	350-60						
-100mesh	< 150						
-200mesh	< 75						
-325mesh (0-44micron)	< 45						
-25um	< 25						
-10um	< 10						

Physical Data

Color: Black

Hardness: 9.36 Mohs (diamond is 10 Mohs)

Theoretical Density: 2.52g/cm³

Melting point: 2450°C

Young's Modulus: 450-470 GPa

Electrical Conductivity: (25°C) 140 S

Thermal Conductivity: (25°C) 30-42 W/m.K

Thermal Expansion Coefficient: 5 x 10⁻⁶/°C

CAS Number: 12069-32-8

REACH: 05-2114274870-44-0000

Chemical Formula: B₄C

Tariff No.: 28499010