



## Black silicon carbide-Grit



Black silicon carbide gets higher toughness than green silicon carbide though the hardness of black silicon carbide is a little lower. It is produced from Quartz and petroleum coke/ sulfur low anthracite. It is of high refractoriness, low thermal conductivity, excellent anti-chemical corrosion properties and high hardness. Black silicon carbide grit is suitable for making silicon carbide advanced ceramic components, stone/marble sandblasting, abrasive wheels and abrasive paper, abrasive belts, etc.

Chemical Composition(%)	
SiC	min. 99%
SiO <sub>2</sub>	max. 0.50%
F,Si	max. 0.20%
Fe <sub>2</sub> O <sub>3</sub>	max. 0.10%
F.C	max. 0.20%
L.O.I	max. 0.05%

Physical Properties	
Hardness:	Mohs:9.2-9.3
Specific Gravity:	3.2-3.45g/cm <sup>3</sup>
Bulk density(LPD):	1.2-1.6 g/cm <sup>3</sup>
Color:	Black
Particle shape:	Hexagonal
Melting Point:	dissociated at 2300 °C
Max.service TEMP:	1900°C
Thermal Conductivity	71-130 W/MK

Application:
Stone/Granite/Marble, copper Grinding
Bonded abrasive wheels for stone
Coated abrasive,sanding paper, sanding cloths.
Glass /Jade polishing
Anti-corrosion Silicon carbide pump and plates
Anti-slip coating and Modified resin
Abrasive sandblasting

Available Sizes	
Grit Designation	Mean Diameter (um)
F12	1765
F14	1470
F16	1230
F20	1040
F22	885
F24	745
F30	625
F36	525
F40	438
F46	370
F54	310
F60	260
F70	218
F80	185
F90	154
F100	129
F120	109
F150	82
F180	69
F220	58