

REGULAR BLACK SILICON CARBIDE



DESCRIPTION

Black Silicon Carbide's hardness is between fused alumina and synthetic diamond. The mechanical intensity of it is higher than that of fused alumina. It is a material with many excellent properties like high wear resistance, low specific density, an outstanding chemical inertness even at elevated temperatures, high thermal conductivity, low thermal expansion and good shock resistance.

APPLICATIONS

C18 grains are blocky, regular, neat particles, high bulk density, toughness, high durability. The bonded abrasives made of A18 grains for grinding hard or brittle materials such as cast iron, ceramics, glass, non-ferrous metal. it also be used as wiresawing semiconductor materials, lapping, pressure blasting, refractory materials, precision ceramics.

GRITS AVAILABLE: F6-F1000

Customized sizes available upon request

TYPICAL CHEMICAL ANALYSIS

SiC	F.C	Si+SiO ₂	Fe ₂ O ₃
98.5	0.4	1	0.3

TYPICAL PHYSICAL PROPERTIES

Mineral Composition	Alpha Sic	Color	Black
Mons' Hardness	≥9.2	Knoop Hardness	2400-2500
Melting Point	2300°C	Specific Gravity	≥3.20

TYPICAL BULK DENSITY

GRITS	BULK DENSITY	GRITS	BULK DENSITY
F12	1.45-1.57	F54	1.47-1.59
F14	1.46-1.58	F60	1.46-1.58
F16	1.47-1.59	F70	1.44-1.56
F20	1.50-1.62	F80	1.44-1.56
F22	1.50-1.62	F90	1.43-1.55
F24	1.51-1.63	F100	1.42-1.54
F30	1.50-1.62	F120	1.41-1.53
F36	1.49-1.61	F150	1.39-1.51
F40	1.49-1.61	F180	1.37-1.51
F46	1.49-1.61	F220	1.35-1.47