

Silicon Carbide



Description

Silicon Carbide is an aggressive sharp angular abrasive, and is the hardest blasting abrasive available. Silicon Carbide particles fracture in use to produce new sharp cutting edges. The hardness of the material greatly reduces blasting cycle times.

Silicon Carbide produces an etched finish; finer grits produce a dull matt finish, while larger grits produce a deep rough etch. Silicon Carbide is an aggressive blasting media with a very fast cutting speed.

Applications

Cleaning, descaling, coating and contamination removal, etching and surface preparation of ferrous and non ferrous metallic parts prior to rework, painting, coating, anodizing and powder coating.

Removal of thermal metal spray and carbon deposits from jet and gas engine components and turbochargers prior to rebuild, anodizing and thermal metal spray.

Decorative glass, stone, metal and wood etching and carving.

Size Details

Grit No.	8	12	16	24	36	46	60
Mean size in μm	2380	1680	1190	710	500	355	250

Grit No.	80	100	120	150	180	220	240
Mean size in μm	180	125	105	75	63	53	45

Note. Standard product sizing is per FEPA 42-GB-1984. Other sizes and specifications available upon request.

Physical Properties

Hardness	Specific Gravity	Bulk Density	Shape	Colour
> 9.0 Mohs	> 3.2 g/cm ³	$\approx 1800\text{kg/m}^3$	Angular	Black

Typical Chemical Composition

SiC	SiO ₂	Si	Fe	Al	C
97.8%	0.6%	0.8%	0.23%	0.3%	0.3%



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