Silicon Carbide black

Our Type: SICS-TMI

sieving acc. Fepa F microgrit*

Description:

Black Silicon Carbide is extremely hard and sharp with excellent physical and chemical properties. The material is commercially produced by the so-called "Acheson Process" using silica sand and pet coke as raw materials. It offers, amongst others, good heat-resistance and very high wear resistance.

Application:

- Grinding
- Polishing

Chemical Analysis (typical):

	SiC	C free	Si free	SiO_2	Fe_2O_3
F 230, F240, F 280, F 320	min. 98.50%	max. 0.30%	max. 0.60 %	max. 0.70%	max. 0.20%
F 360, F 400	min. 98.00%	max. 0.30%	max. 1.00%	max. 0.90%	max. 0.20%
F 500, F 600	min. 97.00%	max. 0.30%	max. 1.80%	max. 1.50%	max. 0.20%
F 800	min. 95.50%	max. 0.30%	max. 2.00%	max. 2.50%	max. 0.20%
F 1000	min. 95.00%	max. 0.40%	max. 2.50%	max. 2.50%	max. 0.20%
F 1200	min. 94.50%	max. 0.40%	max. 2.50%	max. 2.80%	max. 0.20%
F 1500, F 2000	min. 93.00%	max. 0.40%	max. 3.50%	max. 3.50%	max. 0.20%

Available Grits and Bulk Densities (g/cm³):

Grit	min.	max.	Grit	min.	max.
F 230	1.70	1.82	**F 600**	1.40	1.55
F 240	1.70	1.82	**F 800**	1.25	1.50
F 280	1.70	1.82	**F 1000**	1.05	1.25
F 320	1.70	1.82	**F 1200**	0.85	1.10
F 360	1.65	1.75	**F 1500**	0.75	1.00
F 400	1.60	1.75	**F 2000**	0.75	1.00
F 500	1.50	1.65			

Grits and Particle Size Distribution (µm):

Grit	D_{S3} max.	D_{S50}	D_{S94} min.
F 230	85.2	50.0 ± 3.0	34.4
F 240	72.6	42.0 ± 2.0	28.3
F 280	61.1	34.5 ± 1.5	22.1
F 320	50.6	27.7 ± 1.5	16.5
F 360	41.1	21.6 ± 1.5	11.9
F 400	32.7	16.5 ± 1.0	7.9
F 500	25.3	12.3 ± 1.0	4.8
F 600	19.0	9.0 ± 1.0	2.8
F 800	13.8	6.3 ± 1.0	1.7
F 1000	9.6	4.5 ± 0.8	0.7
F 1200	6.4	3.1 ± 0.5	0.4
F 1500	5.0	2.0 ± 0.5	0.2
F 2000	3.5	1.2 ± 0.3	0.1

Packing:

In 25-kg-bags on pallets of 1 MT shrinkfoiled.

This technical information is given according to today's knowledge and can be subject to changes.

*Sieving is determined according to Fepa Standard 42-2:2006; bulk density according to Fepa Standard 44:2-2006.