

Black silicon carbide grains for technical applications

Chemically treated, high purity black silicon carbide in macro and micro grains, produced to comply with FEPA standard and particularly suitable for technical ceramics.

Packaging 1.000 kg or 25 kg paper bags.

Typical chemistry

	SiC	Free-C	Free-SiO ₂	Free-Si	Fe ₂ O ₃	MI
SIKA® TECH III macro	99.50%	0.20%	0.20%	0.10%		0.01%
SIKA® TECH III micro	99.50%	0.20%	0.20%	0.10%	0.2%	

Grit sizes and shapes

Macro grits			Micro grits		
Grit no.	Mean-Ø mm	LPD g/cm ³	Grit no.	Mean-Ø µm	LPD g/cm ³
F 24	0.750	1.48 - 1.58	F 230	53.0	1.24 - 1.36
F 30	0.630	1.47 - 1.57	F 240	44.5	1.20 - 1.32
F 36	0.530	1.47 - 1.57	F 280	36.5	1.13 - 1.29
F 40	0.450	1.47 - 1.57	F 320	29.2	1.05 - 1.21
F 46	0.390	1.46 - 1.56	F 360	22.8	1.02 - 1.18
F 54	0.320	1.46 - 1.56	F 400	17.3	0.91 - 1.13
F 60	0.270	1.44 - 1.54	F 500	12.8	0.85 - 1.07
F 70	0.220	1.43 - 1.53	F 600	9.3	0.77 - 0.99
F 80	0.190	1.43 - 1.53	F 800	6.5	0.68 - 0.90
F 90	0.155	1.41 - 1.51	F 1000	4.5	NA
F 100	0.130	1.45 - 1.55	F 1200	3.0	NA
F 120	0.110	1.40 - 1.50	F 1500	2.0	NA
F 150	0.090	1.37 - 1.49	F 2000	1.2	NA
F 180	0.075	1.34 - 1.46			
F 220	0.063	1.29 - 1.41			

Analytical procedures:

Particle Size distribution is measured according to FEPA Standard 42-1 for Macro-, and 42-2 for Micro-grains
 LPD = Loose Pack Density is measured according to FEPA Standard 44-1 for Macro-, and 44-2 for Micro-grains
 Magnetic Iron (MI) measured according ANSI B74.19
 Chemistry according ANSI B74.15

The information contained in this Product Information Document is the sole property of Fiven, and cannot be distributed outside Fiven or its Customers, entirely or by parts, without the prior consent of Fiven. The Product Information Documents display typical characteristics for Fiven's products as currently produced in Fiven's various manufacturing locations. These typical characteristics do not constitute a precise Customer Specification, which has to be elaborated separately between the Customer and Fiven in the frame of a commercial offer. Only with this precise Customer Specification can Fiven be bound to any commitment or liability regarding the quality of its products.