

Black silicon carbide grains for abrasive applications

Chemically treated, high purity black silicon carbide in macro and micro grains, produced to comply with FEPA standard and particularly suitable for high quality vitrified or resin bonded grinding wheels, lapping and polishing applications.

Packaging 1.000 kg or 25 kg paper bags. 500 kg big bags on request.

Typical chemistry

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

Grit sizes and shapes

Macro grits			Micro grits		
Grit no.	Mean- θ mm	LPD g/cm ³	Grit no.	Mean- θ μ m	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