

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 1.500 kg Big Bags or 25 kg paper bags. Silo trucks 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		
Grit no.	Mean-Ø mm	LPD g/cm ³
F24	0.750	1.46 - 1.55
F30	0.630	1.47 - 1.56
F36	0.530	1.47 - 1.57
F40	0.450	1.49 - 1.57
F46	0.390	1.49 - 1.59
F54	0.320	1.48 - 1.58
F60	0.270	1.47 - 1.57
F70	0.220	1.45 - 1.55
F80	0.190	1.43 - 1.53
F90	0.155	1.41 - 1.51
F100	0.130	1.48 - 1.58
F120	0.110	1.42 - 1.52
F150	0.090	1.37 - 1.47
F180	0.075	1.34 - 1.44
F220	0.063	1.29 - 1.39

Micro grits		
Grit no.	Mean-Ø µm	LPD g/cm ³
F230	53.0±3.0	1.24 - 1.34
F240	44.5±2.0	1.20 - 1.30
F280	36.5±1.5	1.15 - 1.25
F320	29.2±1.5	1.05 - 1.21
F360	22.8±1.5	1.05 - 1.21
F400	17.3±1.0	0.98 - 1.18
F500	12.8±1.0	0.90 - 1.11
F600	9.3±1.0	0.83 - 1.06
F800	6.5±1.0	0.75 - 0.93
F1000	4.5±0.8	na
F1200	3.0±0.5	na
F1500	2.0±0.4	na
F2000	1.2±0.3	na

Analytical procedures:

Particle Size distribution is measured according to FEPA Standard 42-1:2006 for Macro-, and 42-2:2006 for Micro-grains
 LPD = Loose Pack Density is measured according to FEPA Standard 44-1:2006 for Macro-, and 44-2:2006 for Micro-grains
 Magnetic Iron (MI) measured according ANSI B74.19-1990
 Chemistry according ANSI B74.15-1992 (R2000)

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