

Green Silicon Carbide grains for abrasive applications

Chemically treated, high purity green 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, honing stones, 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 I macro	99.60 %	0.15 %	0.15 %	0.10 %		0.01 %
SIKA ABR I micro	99.60 %	0.15 %	0.10 %	0.10 %	0.1 %	

Grit Sizes and Shapes

Macro grits		
Grit no.	Mean-Ø mm	LPD g/cm ³
F24	0.750	1.45 - 1.53
F30	0.630	1.45 - 1.55
F36	0.530	1.46 - 1.56
F40	0.450	1.49 - 1.59
F46	0.390	1.49 - 1.59
F54	0.320	1.49 - 1.59
F60	0.270	1.49 - 1.59
F70	0.220	1.47 - 1.57
F80	0.190	1.46 - 1.56
F90	0.155	1.43 - 1.53
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	1.20 - 1.30
F240	44.5±2.0	1.17 - 1.27
F280	36.5±1.5	1.14 - 1.24
F320	29.2±1.5	1.09 - 1.25
F360	22.8±1.5	1.05 - 1.21
F400	17.3±1.0	1.00 - 1.20
F500	12.8±1.0	0.92 - 1.16
F600	9.3±1.0	0.85 - 1.09
F800	6.5±1.0	0.75 - 0.92
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)

The information contained in this product information document is the sole property of Saint-Gobain, and cannot be distributed outside Saint-Gobain or its customers, entirely or by parts, without the prior consent of Saint-Gobain. The product information documents display typical characteristics for Saint-Gobain's products as currently produced in Saint-Gobain's various manufacturing locations. These typical characteristics do not constitute a precise customer specification, which has to be elaborated separately between the customer and Saint-Gobain in the frame of a commercial offer. Only with this precise customer specification can Saint-Gobain be bound to any commitment or liability regarding the quality of its products.