2023/001

SIKA® TECH I
Product information

Green silicon carbide grains for technical applications

Chemically treated, high purity green silicon carbide in macro and micro grains, produced to comply with FEPA standard and particularly suitable for reaction bonded (SiSiC) technical ceramics.

Packaging 1.000 kg or 25 kg paper bags.

Typical chemistry

	SiC	Free-C	Free-SiO_2	Free-Si	Fe_2O_3	MI
SIKA® TECH I macro	99.60%	0.15%	0.15%	0.10%		0.01%
SIKA® TECH 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/cm³
F 24	0.750	1.47 - 1.57
F 30	0.630	1.48 - 1.58
F 36	0.530	1.47 - 1.57
F 40	0.450	1.49 - 1.59
F 46	0.390	1.46 - 1.56
F 54	0.320	1.46 - 1.56
F 60	0.270	1.46 - 1.56
F 70	0.220	1.44 - 1.54
F 80	0.190	1.42 - 1.52
F 90	0.155	1.42 - 1.52
F 100	0.130	1.48 - 1.58
F 120	0.110	1.40 - 1.50
F 150	0.090	1.36 - 1.48
F 180	0.075	1.33 - 1.45
F 220	0.063	1.28 - 1.40

Micro grits

Grit no.	Mean-Ø µm	LPD g/cm³
F 230	53.0	1.20 - 1.32
F 240	44.5	1.18 - 1.30
F 280	36.5	1.13 - 1.29
F 320	29.2	1.05 - 1.21
F 360	22.8	1.02 - 1.18
F 400	17.3	0.91 - 1.13
F 500	12.8	0.85 - 1.07
F 600	9.3	0.77 - 0.99
F 800	6.5	0.68 - 0.90
F 1000	4.5	NA
F 1200	3.0	NA
F 1500	2.0	NA
F 2000	1.2	NA

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

SIKA Silicon Carbide