2020/001

SIKA® ABR IV A
Product information

Black silicon carbide grains for abrasive applications

Sieved, green silicon carbide in macro grains, produced to comply with FEPA standard and particularly suitable for resinoid bonded grinding wheels, cut-off or snagging wheels, anti-slip flooring applications. Micro grains also used for marble, granite and stone polishing.

Packaging 25 kg paper bags or 1.000 kg big bags.

Typical chemistry

	SiC	Free-C	Free-SiO_2	Free-Si	Fe_2O_3	MI
Macro	98.00%	0.25%	0.70%	0.80%	0.10%	0.02%
Micro	98.60%	0.15%	0.60%	0.50%	0.08%	0.04%

Grit sizes and shapes

Macro grits

Grit no.	Mean-ø mm	LPD g/cm³
F 8	2.460	1.35 - 1.55
F 10	2.085	1.35 - 1.55
F 12	1.765	1.35 - 1.55
F 14	1.470	1.35 - 1.55
F 16	1.230	1.35 - 1.55
F 20	1.040	1.40 - 1.60
F 22	0.885	1.40 - 1.60
F24	0.745	1.40 - 1.60
F30	0.625	1.40 - 1.60
F36	0.525	1.40 - 1.60
F40	0.438	1.40 - 1.60
F46	0.370	1.40 - 1.60
F54	0.310	1.40 - 1.60
F60	0.260	1.40 - 1.60
F70	0.218	1.40 - 1.60
F80	0.185	1.35 - 1.55
F90	0.154	1.35 - 1.55
F100	0.129	1.35 - 1.55
F120	0.109	1.35 - 1.55
F150	0.082	1.30 - 1.50
F180	0.069	1.25 - 1.45
F220	0.058	1.25 - 1.45

Micro grits

Grit no.	ø d_{s50} µm	LPD g/cm³
F 240	44.5	1.37 - 1.52
F 280	36.5	1.34 - 1.49
F 320	29.2	1.30 - 1.45
F 360	22.8	1.27 - 1.42
F 400	17.3	1.05 - 1.20
F 500	12.8	1.05 - 1.20
F 600	9.3	0.93 - 1.08
F 800	6.5	0.93 - 1.08

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