

## Black silicon carbide grains for abrasive applications

Sieved, black 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 <sub>2</sub>	Free-Si	Fe <sub>2</sub> O <sub>3</sub>	MI
<b>Macro</b>	98.00%	0.25%	0.70%	0.80%	0.10%	0.02%
<b>Micro</b>	98.60%	0.15%	0.60%	0.50%	0.08%	0.04%

### Grit sizes and shapes

Macro grits		
Grit no.	Mean- $\theta$ mm	LPD g/cm <sup>3</sup>
<b>F 8</b>	2.460	1.35 - 1.55
<b>F 10</b>	2.085	1.35 - 1.55
<b>F 12</b>	1.765	1.35 - 1.55
<b>F 14</b>	1.470	1.35 - 1.55
<b>F 16</b>	1.230	1.35 - 1.55
<b>F 20</b>	1.040	1.40 - 1.60
<b>F 22</b>	0.885	1.40 - 1.60
<b>F24</b>	0.745	1.40 - 1.60
<b>F30</b>	0.625	1.40 - 1.60
<b>F36</b>	0.525	1.40 - 1.60
<b>F40</b>	0.438	1.40 - 1.60
<b>F46</b>	0.370	1.40 - 1.60
<b>F54</b>	0.310	1.40 - 1.60
<b>F60</b>	0.260	1.40 - 1.60
<b>F70</b>	0.218	1.40 - 1.60
<b>F80</b>	0.185	1.35 - 1.55
<b>F90</b>	0.154	1.35 - 1.55
<b>F100</b>	0.129	1.35 - 1.55
<b>F120</b>	0.109	1.35 - 1.55
<b>F150</b>	0.082	1.30 - 1.50
<b>F180</b>	0.069	1.25 - 1.45
<b>F220</b>	0.058	1.25 - 1.45

Micro grits		
Grit no.	$\theta$ d <sub>550</sub> $\mu$ m	LPD g/cm <sup>3</sup>
<b>F 240</b>	44.5	1.37 - 1.52
<b>F 280</b>	36.5	1.34 - 1.49
<b>F 320</b>	29.2	1.30 - 1.45
<b>F 360</b>	22.8	1.27 - 1.42
<b>F 400</b>	17.3	1.05 - 1.20
<b>F 500</b>	12.8	1.05 - 1.20
<b>F 600</b>	9.3	0.93 - 1.08
<b>F 800</b>	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