CARBOREX

Micro Grits and Sub-Micron Powders

Grains and Sub-Micron Powders for Abrasive and Ceramic Use

CARBOREX micro grits and sub-micron powders are high quality black and green silicon carbide grains manufactured by Washington Mills.

Washington Mills has the technical skills and advanced equipment to make sub-micron powders - in fact, we specialize in making materials to meet your exact specifications. Tell us what you're looking for in a material and we can manufacture to your exact technical specifications including: chemistry, particle size distribution, bulk density, and grain shape.

CARBOREX grits are manufactured and graded using the most sophisticated processes in order to ensure quality and consistency. Our unique process technology and new state-of-the-art microgrit facility allows us to carefully classify the grits to meet your requirements.

Known for its high hardness, outstanding high thermal conductivity, excellent chemical stability and hot strength, CARBOREX is used in a wide range of applications.

- Advanced Ceramics
- Molded ceramic shapes
- Coatings
- Slicing silicon wafers
- Composites
- Lapping

- Diesel particulate filters
- Refractories
- Grinding wheels
- Kiln furniture
- Armor
- Blasting



Contact: Brian Hauer Tel: 800.828.1666 or 716-278-6600 info@washingtonmills.com

WASHINGTON MILLS

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Technical Specifications

Surface Chemical Values

Typical Standard

Product	Grits	% SiC	% Free C	% Si	% Si0 2	% Fe ₂ 0 ₃
CARBOREX C-5	F 240 – F 1200	99.0	0.25	0.25	0.30	0.05
(Green)	1200 / Finer	99.0	0.25	0.25	0.30	0.05
CARBOREX C-6	F 240 – F 1200	97.8	0.30	0.80	0.60	0.20
(Black)	1200 / Finer	95.0	0.70	0.30	3.00	0.4
Surfage chemical values for finer sizes available upon request						

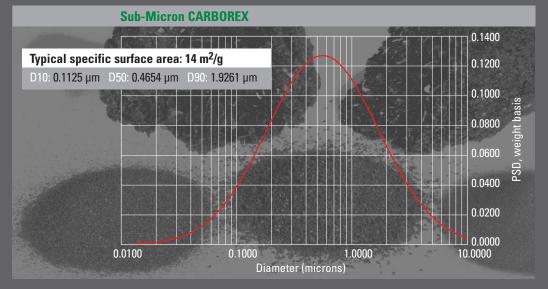
Surface chemical values for finer sizes available upon request

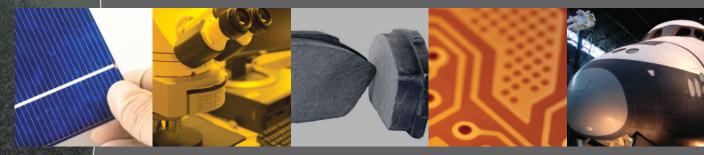
*Chemical Analysis (in weight) according to FEPA 45-Gb-1986, R1993 resp. ISO 9286

Typical Physical Properties

Hardness		Linear Thermal Expa	nsion		
Moh's Scale	between 9 and 10	25 - 1000° C	5.1 x 10⁻⁰/ ° C		
Knoop Scale	25.000 - 30.000 N/mm ²	25 - 2000° C	5.8 x 10⁻6/ ° C		
Thermal Conductivity		Specific Heat			
20° C	0.41 W/cm ° C	25° C	0.67 J/g ° C		
1000° C	0.21 W/cm ° C	1000° C	1.26 J/g ° C		
		Specific Density	3.21 g/cm ³		
		Bulk Density	0.7 – 1.7 g/cm ³		

1200 / Finer Typical Particle Size Distribution (as measured on Malvern Mastersizer 2000) *Particle size distribution for other sizes is available upon request*





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