

CARBOREX FPG 7 AND 100/F GREEN SILICON CARBIDE POWDERS

FOR RECRYSTALLIZED AND NITRIDE BONDED CERAMICS APPLICATIONS

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CARBOREX SILICON CARBIDE powders are produced to specific particle size distribution, surface area, bulk density and purity suitable for recrystallized and nitride bonded technical ceramics.

CARBOREX FPG 7

PARTICLE SIZE AND SURFACE AREA

	d0 [μm] Max.	d10 [μm] Max.	d50 [μm]	d90 [μm] Min	S.S.A [m ² /g]
FPG 7	20	10	2,5±0,3	0,3	7±1

Particle size distribution measured on Malvern Mastersizer.
Specific Surface Area (S. S. A.): BET by Tristar.

TYPICAL IMPURITY LEVELS

	SiC [wt%]	Free C [wt%]	Free Si [wt%]	SiO ₂ [wt%]	Fe [wt%]	Al [wt%]	Ca [wt%]	O [wt%]	pH	Conductivity [μS/cm]
FPG 7	98,3	0,3	0,15	1,25	0,05	0,03	0,003	0,9	4,8±0,8	10

Free C, Free Si, SiO₂ measured according to FEPA-Standard 45-1: 2011.

Fe, Al, Ca measured with XRF.

Oxygen measured by combustion and IR detection.

CARBOREX GC 100/F

TYPICAL SIEVE ANALYSES AND BULK DENSITY

MESH	100	120	140	200	325	-325	BD [g/ml]
%	3	9	12	31	40	5	1,6

Particle size distribution measured on RoTap.

BD analysis according to FEPA-Standard 44-1: 2006.

TYPICAL IMPURITY LEVELS

SiC [wt%]	Free C [wt%]	Free Si [wt%]	SiO ₂ [wt%]	Fe [wt%]	Al [wt%]	Ca [wt%]
99,5	0,07	0,05	0,20	0,02	0,003	0,003

Chemical analysis according to FEPA-Standard 45-1: 2011.

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