SIKA® Unikiln FCP05 / FCP07 / 100F Product information



Green silicon carbide powders for recrystallized (RSiC) and nitride-bonded (NSiC) technical ceramics.

Chemically treated, green silicon carbide designed for production of re-crystallized and nitride-bonded ceramic parts. The FCP07 with its unique slip properties used in combination with 100F provides a maximum green density and high oxidation resistance in applications such as kiln furniture, semiconductor components and process materials.

Packaging 25 kg paper bags or 1.000 kg big bags.

Typical chemistry

	Free-Si	Free-C	Tot. Oxygen	S.S.A.	рН	Conductivity
FCP05	0.10%	0.25%	0.75%	5.0 m ² /g	4.5 - 5.5	na
FCP07	0.25%	0.30%	1.10%	7.0 m ² /g	4 - 5	10 μS
Analytical procedures:	ANSI B74.15		LEC0	Micromeritics Gemeni V	25 gr. SiC + 50 ml D.I.H20	5 gr. SiC + 100 ml D.I.H20

Typical trace elements

	Tot. Fe ppm	Tot. AI ppm	Tot. Ni ppm	Tot. V ppm	Tot. Na ppm	Tot. Cr ppm	Tot. Ca ppm	Tot. Ti ppm	Tot. Mg ppm	Tot. K ppm
FCP05	421	252	96	355	< 25	48	54	91	< 10	<5
FCP07	614	235	95	202	47	42	39	72	< 10	<5
Analytical Procedures:					X-RAY Fluo	rescence				

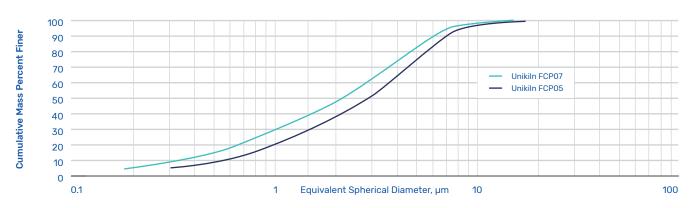
Typical analysis

	SiC	Free-SiO ₂	Free-Si	Free-C	Fe ₂ O ₃	Al_2O_3	Ca0
100F	99.5%	0.15%	0.15%	0.10%	0.02%	0.01%	0.01%

Typical sieve analysis on ASTM sieve No

	50	100	120	140	200	325	< 325	LPD	
100F	0%	2%	17%	22%	35%	23%	1%	1.59 gr/ml	

Typical Unikiln sedimentation curves (Sedigraph)



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