

SIKA® SINTEX 10C / 13 / 13C / 15 / 15C / 20C PRODUCT INFORMATION

Silicon Carbide powders for solid-state (SSiC) or liquid-phase (LP-SiC) sintered technical ceramics

Fine silicon carbide powders produced to specific surface area and purity for high performance structural ceramic application. The powders are specially designed to obtain optimum sinterability in production of solid state (SSiC) and liquid phase (LP-SiC) sintering applications.

Packaging 25 kg cardboard or 500 kg big bags.

Typical Chemistry

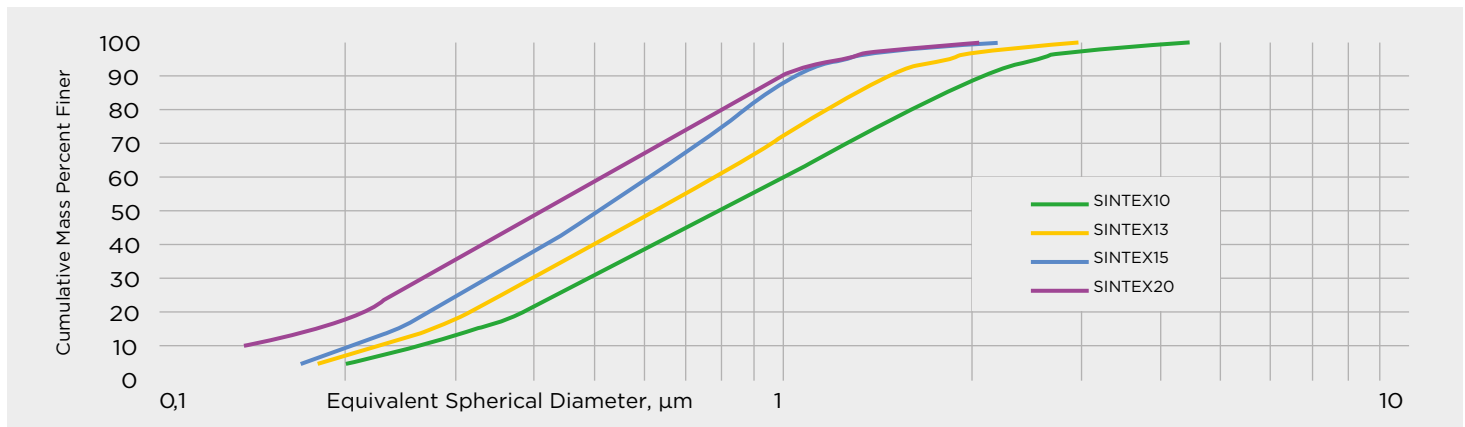
	Free-SiO ₂	Free-Si	Free-C	Tot. Oxygen	S.S.A.	pH
Sintex 10C	0.60 %	0.05 %	0.20 %	0.65 %	10 m ² /g	6 - 7
Sintex 13	1.50 %	0.50 %	0.30 %	1.75 %	13 m ² /g	7 - 8
Sintex 13C	0.70 %	0.05 %	0.15 %	0.75 %	13 m ² /g	6 - 7
Sintex 15	1.20 %	0.10 %	0.20 %	1.20 %	15 m ² /g	6 - 7
Sintex 15C	0.75 %	0.05 %	0.20 %	0.85 %	15 m ² /g	6 - 7
Sintex 20C	1.20 %	0.05 %	0.20 %	1.20 %	20 m ² /g	6 - 7
Analytical Procedures:	ANSI 74.15 1992			LECO	Micromeritics Gemini V	25 gr. SiC + 50 ml D.I.H ₂ O

Typical Trace elements

	Tot. Fe ppm	Tot. Al 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
Sintex 10C	30	400	< 10	70	< 100	< 10	20	200	< 100	20
Sintex 13	1500	1750	na	na	na	na	na	na	na	na
Sintex 13C	50	1200	< 10	70	< 100	< 10	20	200	< 100	20
Sintex 15	350	400	< 10	70	< 100	< 10	20	200	< 100	20
Sintex 15C	50	250	< 10	70	< 100	< 10	20	200	< 100	20
Sintex 20C	75	250	< 10	70	< 100	< 10	20	200	< 100	20

Analytical Procedures: X-RAY Fluorescence

Typical SINTEX sedimentation Curves (Sedigraph)



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