

## 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 applications. The powders are specially designed to obtain optimum sinterability in production of solid state (SSiC) and liquid phase (LP-SiC) sintering applications.

**Packaging: Sintex 10C / 13 / 13C / 15 / 25, 500 kg big bags**  
**Packaging: Sintex 15C, 25 kg paperbox.**

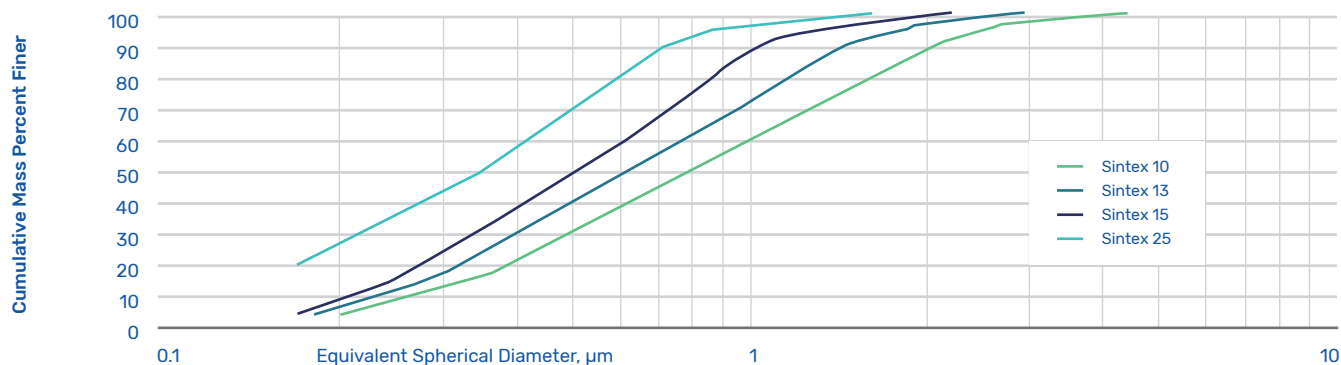
### Typical chemistry

	Free-SiO <sup>2</sup>	Free-Si	Free-C	Tot. Oxygen	S.S.A.	pH
<b>Sintex 10C</b>	0.60%	0.05%	0.20%	0.65%	10 m <sup>2</sup> /g	6 – 7
<b>Sintex 13</b>	1.50%	0.50%	0.30%	1.75%	13 m <sup>2</sup> /g	7 – 8
<b>Sintex 13C</b>	0.70%	0.05%	0.15%	0.75%	13 m <sup>2</sup> /g	6 – 7
<b>Sintex 15</b>	1.20%	0.10%	0.20%	1.20%	15 m <sup>2</sup> /g	6 – 7
<b>Sintex 15C</b>	0.75%	0.05%	0.20%	0.85%	15 m <sup>2</sup> /g	6 – 7
<b>Sintex 25</b>	na	0.10%	0.50%	1.60%	25 m <sup>2</sup> /g	7 – 8
Analytical procedures:	ANSI B74.15			LECO	Micromeritics Gemini V	25 gr. SiC + 50 ml D.I.H <sub>2</sub> 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
<b>Sintex 10C</b>	30	400	< 10	70	< 100	< 10	20	200	< 100	20
<b>Sintex 13</b>	1500	1750	na	na	na	na	na	na	na	na
<b>Sintex 13C</b>	50	1200	< 10	70	< 100	< 10	20	200	< 100	20
<b>Sintex 15</b>	350	400	< 10	70	< 100	< 10	20	200	< 100	20
<b>Sintex 15C</b>	50	250	< 10	70	< 100	< 10	20	200	< 100	20
<b>Sintex 25</b>	450	500	< 10	70	< 100	< 10	20	200	< 100	20
Analytical procedures:	X-RAY Fluorescence									

### Typical SIKA® sedimentation curves (Sedigraph®)



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