

## Grain Size Distribution

| Specific surface area (BET) |       |                           | d10     | d50           | d90     |
|-----------------------------|-------|---------------------------|---------|---------------|---------|
| 504                         | SM 04 | 3 – 5 m <sup>2</sup> /g   | >0.1 µm | 0.4 – 2 µm    | <9 µm   |
| 505                         | SM 05 | 4 – 6 m <sup>2</sup> /g   | >0.1 µm | 0.5 – 2 µm    | <6.5 µm |
| 507                         | SM 07 | 6 – 8 m <sup>2</sup> /g   | >0.1 µm | 0.3 – 0.6 µm  | <2 µm   |
| 509                         | SM 09 | 8 – 10 m <sup>2</sup> /g  | >0.1 µm | 0.3 – 0.6 µm  | <1.9 µm |
| 510                         | SM 10 | 9 – 11 m <sup>2</sup> /g  | >0.1 µm | 0.3 – 0.9 µm  | <2.5 µm |
| 511                         | SM 11 | 10 – 12 m <sup>2</sup> /g | >0.1 µm | 0.5 – 0.7 µm  | <1.6 µm |
| 513                         | SM 13 | 12 – 14 m <sup>2</sup> /g | >0.1 µm | 0.3 – 0.65 µm | <1.9 µm |
| 515                         | SM 15 | 14 – 16 m <sup>2</sup> /g | >0.1 µm | 0.3 – 0.5 µm  | <1.3 µm |
| 525                         | SM 25 | 24 – 26 m <sup>2</sup> /g | >0.1 µm | 0.1 – 0.3 µm  | <3.5 µm |
| 530                         | SM 30 | 29 – 31 m <sup>2</sup> /g | >0.1 µm | 0.1 – 0.3 µm  | <1 µm   |

Other grain sizes on request

## Chemical Composition

|                                |          |
|--------------------------------|----------|
| SiC                            | base     |
| Al <sub>2</sub> O <sub>3</sub> | < 0.10 % |
| Fe <sub>2</sub> O <sub>3</sub> | < 0.10 % |
| MgO                            | < 0.05 % |
| CaO                            | < 0.05 % |
| TiO <sub>2</sub>               | < 0.10 % |
| Na <sub>2</sub> O              | < 0.05 % |
| K <sub>2</sub> O               | < 0.05 % |

These properties are typical but do not constitute specifications

## Physical Properties

|                      |                        |
|----------------------|------------------------|
| Theoretical Density  | 3.21 g/cm <sup>3</sup> |
| Melting Point        | 2300 °C                |
| Hardness             | 25 HV <sub>10</sub>    |
| Thermal Conductivity | 100 – 140 W/(m·K)      |
| Color                | grey                   |

## Applications

Furnace Components, Burner Nozzles, Refractory Tiles, Heat Exchangers, Pump Valves, Bearings, Textile Guides, Turbine Vanes, Engine Parts, Electronic Processing Equipment, Protective Coatings

