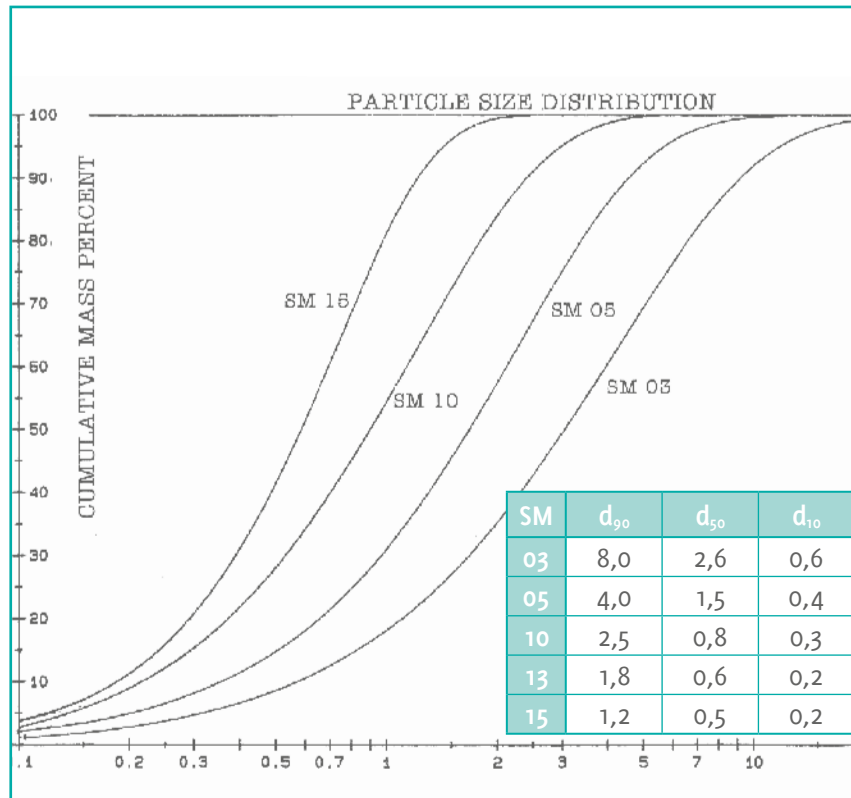


Features/Alternative Properties

- Heat and oxidation resistance
- High hardness
- Extreme wear resistance
- Excellent corrosion resistance
- Low thermal expansion conductivity
- High thermal shock resistance

Applications

- Furnace components
- Burner nozzles
- Refractory tiles
- Heat exchangers
- Pump valves
- Bearings
- Textil guides
- Turbine vanes
- Engine parts
- Electronic processing equipment
- Protective coatings



Typical Chemical And Physical Analysis

Grade	SM 03	SM 05	SM 10	SM 13	SM 15
Specific surface area m ² /g (BET)	3±0,5	5±1	10±1	13±1	15±1

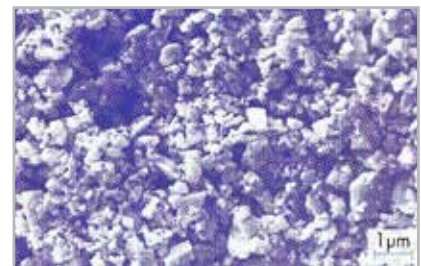
Impurities (wt-%) Emission Spectroscopy

Grade	SM 03	SM 05	SM 10	SM 13	SM 15
Fe	<0,05	<0,05	<0,05	<0,05	<0,05
Al	<0,05	<0,05	<0,05	<0,05	<0,05
Ti	<0,01	<0,01	<0,01	<0,01	<0,01
Ca	<0,01	<0,01	<0,01	<0,01	<0,01
Mg	<0,01	<0,01	<0,01	<0,01	<0,01
Na	<0,01	<0,01	<0,01	<0,01	<0,01
K	<0,01	<0,01	<0,01	<0,01	<0,01
free Si (DIN 51075/4)	<0,1	<0,1	<0,1	<0,1	<0,1
free C (Leco) - RC 41 2	<0,1	<0,1	<0,1	<0,1	<0,1

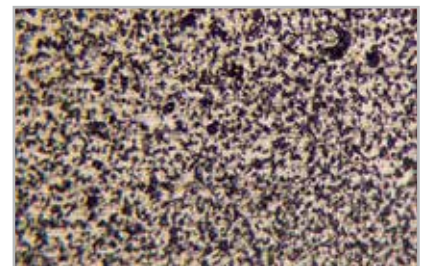
Additional qualities and specifications can be delivered also with finishing additives.

Packaging

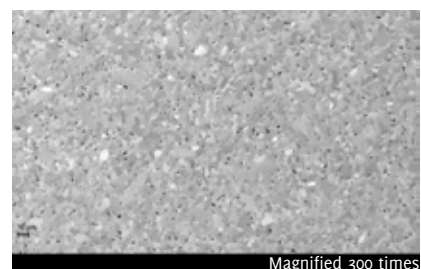
- Plastic bags in paper parcel 10 kg each
- Plastic bags in cardboard drums 40 kg each



Scanning Electron micrograph of Silicon Carbide SM 15



Silicon Carbide particles in a nickel layer



Magnified 300 times
Micro section sintered part (Density = 3,16 g/cm³).