

Description of Product

Chemical formula:SiC
 Chemical Name:.....Silicon Carbide
 Trade Name:RTP T4.05
 Application: for isostatic pressing, green machining, sintering, complex parts

Product Number:

IKH 604

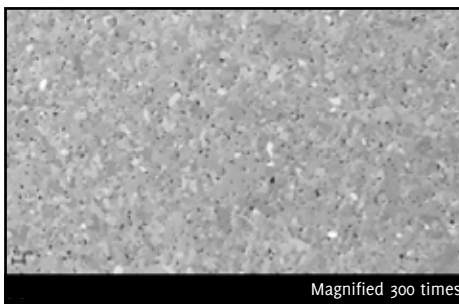


Physical Properties

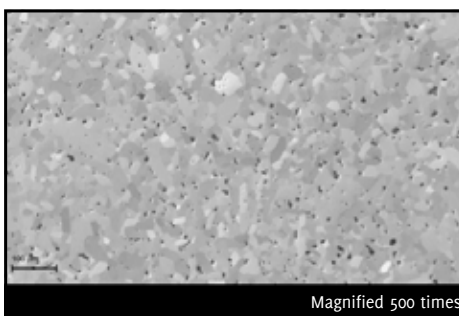
d ₁₀	min. 25 microns
d ₅₀	approx. 70 microns
d ₉₀	max. 150 microns

Chemical Properties

SiC	99,7 – 99,9 %
Al ₂ O ₃	< 0,1 %
CaO	< 0,1 %
Fe ₂ O ₃	< 0,1 %

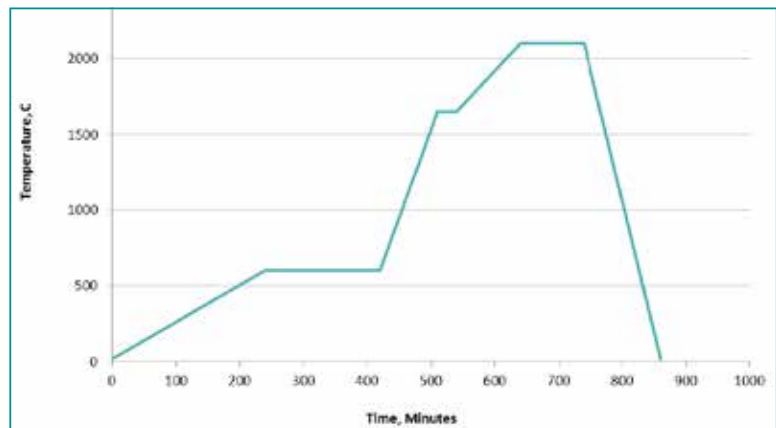


Micro section



Micro section

Green Density (at 20kN/cm ²)	1,9 – 1,98 g/cm
Sintered Density	3,15 – 3,18 g/cm
Apparent Density	0,81 – 0,85 g/cm
Flexual Strength	~ 450 M/Pa
Shrinkage	~ 17 %
dm (weight loss after sintering)	~ 12 – 13 %



Packaging

500 kg pallet boxes with PE-inliners,
 Other packaging on request

Storage and Handling

Store in cool, dry place in tightly closed containers.
 Ensure good ventilation/exhaustion at the workplace.
 Protect against electrostatic charges.

Store only in the original container
 and away from oxidizing agents.
 Protect from heat and direct sunlight.

Hazard designation

No hazards when materials are handled Professionally

Documentation

A quality certificate is supplied with every shipment

Advantages.

- Increase the green strength to avoid potential cracking and chipping during material handling in green stage.
- Excellent powder flowability that reduces the variation filling the die ensuring consistency in green density.
- Reduction of non conforming parts due to dimensional problems after sintering as a result of excellent flowability and pressing behavior.
- RTP formulation contains a carbon precursor environmentally friendly. No use of phenolic resin. Our carbonizing binder makes the coking process clean and safer avoiding toxic emissions to environment and less down time for maintenance in rough vacuum pump.
- High purity Silicon Carbide used as raw material to ensure correct densification and excellent material performance.