

# SIKA® Densitec-S-Cast

## Product information



**Silicon carbide for slipcasting of complex shapes (wet forming). Mixed with our own quality assured B4C and Carbon in optimal conditions for solid-state (SSiC) sintered technical ceramics.**

Densitec S-Cast powder is based on our standard black Sintex 10. The premix is doped with sintering additives, and is ready to be casted into a green body.

**Packaging** 12.5 kg plastic pails

### Composition

Sintering additives		Binder content (total organic)	Moisture content	SiC type
Carbon	Boron	%	%	balance
Carbon black	Boron carbide	approx. 1	approx. 0.6	Sintex 10

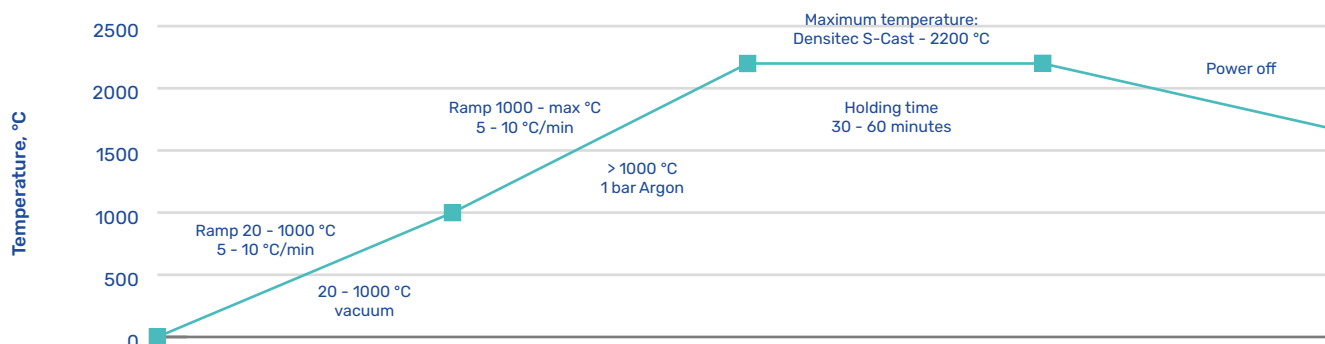
### Typical physical properties

Powder		Casted green body	
Bulk density	Hall flow-meter	Green density	Drying over night 55 C
g/cm <sup>3</sup>		g/cm <sup>3</sup>	
0.85	Cohesive powder	2.0	1.5 MPa

### Typical properties of sintered parts

Density	Microhardness HV 1000	Indentation fracture toughness, $K_{IC}$	Linear shrinkage	Bending strength
g/cm <sup>3</sup>	GPa	MPa/m	%	4 point MPa
3.10	24	3.5	approx. ~ 16	400

### Typical Sintering Cycles



The information contained in this Product Information Document is the sole property of Kymera International, and cannot be distributed outside Kymera International or its Customers, entirely or by parts, without the prior consent of Kymera International. The Product Information Documents display typical characteristics for Kymera International's products as currently produced in Kymera International's various manufacturing locations. These typical characteristics do not constitute a precise Customer Specification, which has to be elaborated separately between the Customer and Kymera International in the frame of a commercial offer. Only with this precise Customer Specification can Kymera International be bound to any commitment or liability regarding the quality of its products.