

# SIKA® Densitec X-FORM

## Product information



**Silicon carbide for forming of complex shapes (plastic forming eq. extrusion, 3D printing).  
Mixed with our own quality assured B<sub>4</sub>C and Carbon in optimal conditions for solid-state (SSiC)  
sintered technical ceramics.**

Densitec X-Form powder is based on our standard black Sintex 13. The premix is doped with sintering additives, and is ready to be formed into a green body.

**Packaging 15 kg plastic pails**

### Composition

Sintering additives		Binder content (total organic)	Moisture content	SiC type
Carbon	Boron	%	%	balance
Carbon black	Boron carbide	approx. 1	approx. 0.7	Sintex 13

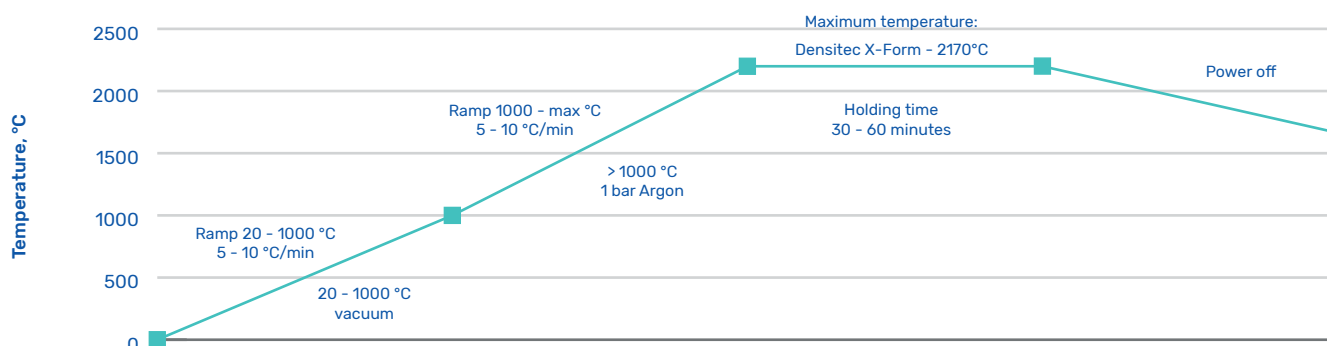
### Typical physical properties

Powder		Extruded 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	90	2.0	1.5 MPa

### Typical properties of sintered parts

Density	Microhardness HV 1000	Indentation fracture toughness, K <sub>IC</sub>	Linear shrinkage	Bending strength
g/cm <sup>3</sup>	GPa	MPa/m	%	4 point MPa
3.12	24	3.8	approx. - 17	400

### Typical Sintering Cycles



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