

**Silicon carbide for forming of complex shapes (plastic forming eq. extrusion, 3D printing).
Mixed with our own quality assured B₄C and Carbon in optimal conditions for solid-state (SSiC)
sintered technical ceramics.**

Densitec X-Form powder is based on our standard black Sintex 10. The premix is doped with sintering additives, and is ready to be formed 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 ³		g/cm ³	
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 ³	GPa	MPa/m	%	4 point MPa
3.10	24	3.5	approx. ~ 16	400

Typical Sintering Cycles

