# SIKA® Densitec 15 Product information



# Silicon carbide ready-to-press granules for solid-state (SSiC) sintered technical ceramics.

Densitec granules are spray dried granules, based on our standard green Sintex 15C. The premix is doped with sintering additives, temporary binder and pressing aids, and is ready to be pressed into a green body. SIKA Densitec 15 is ideal for drypressing and particularly suitable for isostatic pressing.

### Packaging 15 kg plastic pails

#### Composition

	Sintering additives		Binder content (total organic)	Moisture content	SiC type	
	Carbon	Boron	%	%	balance	
Densitec 15	Resin	Boron carbide	approx. 9.5	approx. 0.6	Sintex 15C	

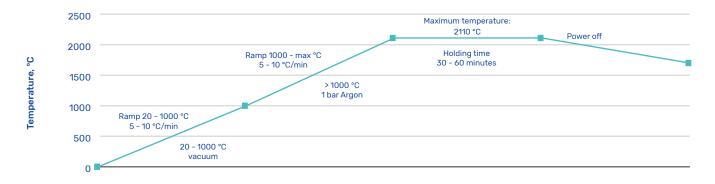
# **Typical physical properties**

	Granules				Green body						
	Size		D. II.	11-11-61				Green str	ength dian	netral comp	ression
			Bulk F density	Hall flow- meter	Green density		curir		uring 120 C	ng 120 C	
	max	Average		Sec / 25g	125 MPa	150 MPa	225 MPa	150 MPa	30 min	1 h	2 h
Densitec 15	250	100	0.85	45	1.8	1.85	1.88	0.5 MPa	1 MPa	1.3 MPa	2.3 MPa

# Typical properties of sintered parts

	Density	Microhardness HV 1000	Indentation fracture toughness, K <sub>IC</sub>	Linear shrinkage	Bending strength	
	g/cm3	GPa	MPa/m	%	4 point MPa	
Densitec 15	3.17	26	4.0	approx. ~ 18	500	

# **Typical Sintering Cycle**



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