

Silicon Carbide Ready-To-Press granules for solid-state (SSiC) hot-pressed technical ceramics.

DENSITEC 13H granules are spray dried granules, bases on our standard black SINTEX 13C. The premix is doped with sintering additives, low content of temporary binder and pressing aids and is ready to be pressed.

DENSITEC 13H is suitable for dry pressing, uniaxial and isostatic.

Packaging 15 kg plastic pails

Composition

	Sintering additives		Binder content (total organic)	Moisture content	SiC type
	Carbon	Boron	%	%	balance
DENSITEC 13H	Carbon black	Boron Carbide	approx. 2.0	approx. 0.6	SINTEX 13 C

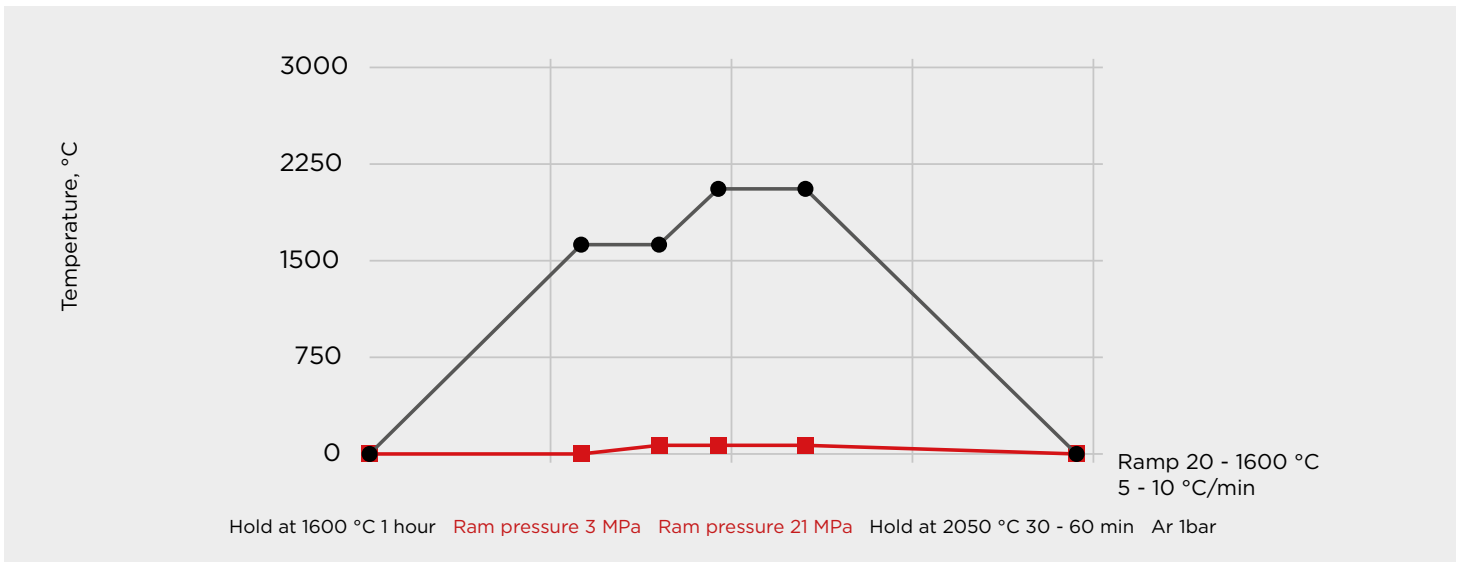
Typical physical properties of green material

	Size		Bulk Density	Flow. Hall Sec / 25g	Appearance
	max	Average			
DENSITEC 13H	250	100	0.88	60	Dark color

Typical properties of sintered parts

	Density	Microhardness HV 1000	Indentation fracture toughness, K _{IC}	Linear shrinkage	Bending strength
	g/cm ³	GPa	MPa m ^{1/2}	%	4 point MPa
DENSITEC 13H	3.19	25	3.5	approx. ~ 18	550

Typical Sintering Cycles



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