

Silicon carbide ready-to-press granules for hot-pressing technical ceramics.

Densitec 13H granules are spray dried granules, based on our standard black Sintex 13C for hot-pressing technical ceramics. The premix is doped with sintering additives, a low content of temporary binder and pressing aids, and is ready for direct hot-pressing or uniaxial pre-pressing and hot-pressing.

Packaging 15 kg plastic pails

Composition

	Sintering additives		Binder content (total organic)	Moisture content	SiC type
	Carbon	Boron	%	%	
Densitec 13H	Carbon black	Boron carbide	approx. 2.0	approx. 0.6	Sintex 13C

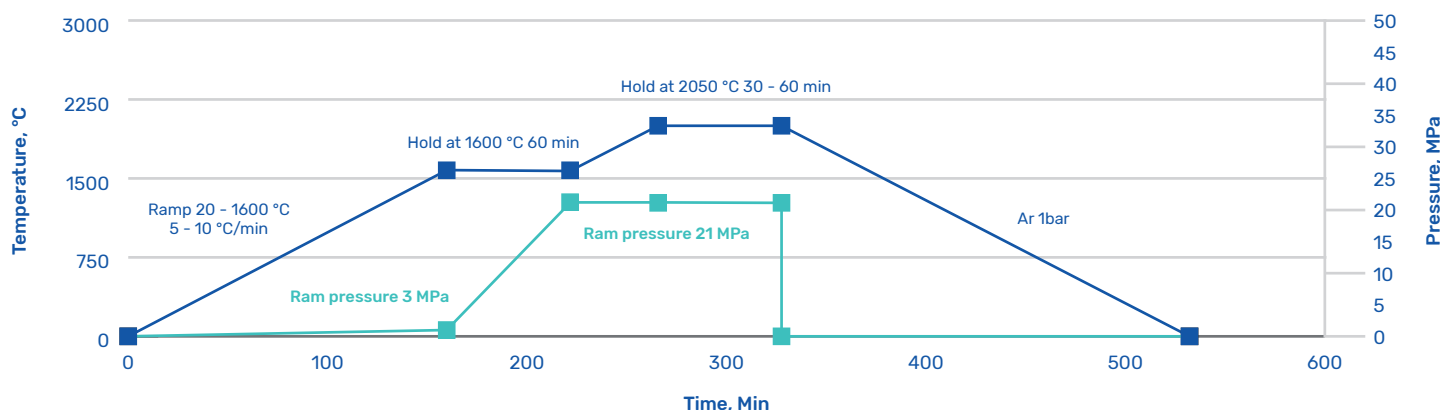
Typical physical properties of granules

	Size		Bulk density	Hall flowmeter	Appearance
	max	Average	g/cm ³	Sec / 25g	
Densitec 13H	250	100	0.88	60	Dark color

Typical physical properties of sintered material

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

Typical Sintering Cycles



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