

Sintered Silicon Carbide(SSiC) Data Sheet

SIC Properties

Application temperature:	1900	°C
Hardness :	2500	kgf/mm ²
Compressive Strength	≥2600	Mpa
Bending Strength	≥370	Mpa
Sic Content	≥99	%
Density:	g/cm ³	≥3.14
Modulus of Elasticity	410	MPa
Thermal Conductivity	100-120	W/ (M.K)
Coefficient Ofthermal Expansion	4.0	i/°C
Open Porosity	<0.1	%
Posisson's Ration	0.16	/
Sound Velocity:	11800	m/sec

Pressureless sintering products mainly include:

- Mechanical seals,
- sliding bearings,
- shaft sleeves,
- silicon carbide balls,
- silicon carbide plates,
- bullet-proof ceramics,
- ceramic wear-resistant sheets
- other special customizable products according to their drawings.