

Tokai Carbon – Specialty Carbon Product

Solid SiC

Solid SiC, developed by our own unique technology, is a super high purity SiC made by a Chemical Vapour Deposition (CVD) process.

The material has:

- Super High Purity
- Excellent Chemical Resistance
- Very Little Metal Diffusion
- No Outgassing
- Theoretical Density (-SiC)

Applications for this type of product:

- Wafer Carriers
- Susceptors, Dummy Wafers
- Guide Rings
- Parts for Etching Process
- CVD Process, etc

Typical Properties of Solid SiC

Density (g/cm ³)	Specific Resistance (Ωcm)	Flexural Strength (MPa)	Hardness (Vickers)	Young's Modulus (GPa)	Thermal Conductivity @RT (W/mK)	C.T.E (RT-1000°C) (x10 ⁻⁶ /K)
3.21	100	590	26	450	250	4.0

Typical Impurities Analysis

	Al	Ca	Cr	Cu	Fe	K	Na	Ni	Ti	V
ppb	20	16	9	13	31	58	3	6	3	<1