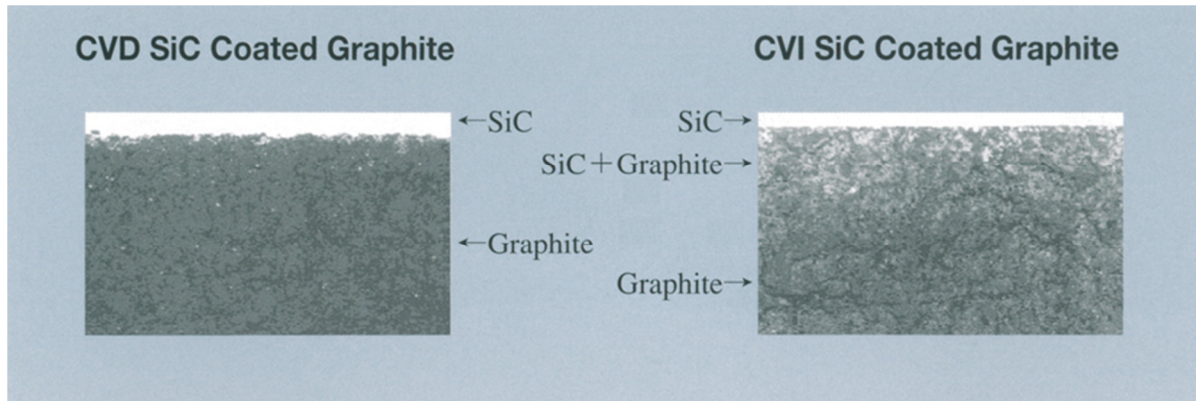


Tokai Carbon – Specialty Carbon Product

SiC Coated Graphite



There are two methods by which the Graphite is 'coated'; CVD (Chemical Vapour Deposition) and CVI (Chemical Vapour Impregnation). These treatments transform the Graphite surface to SiC so the 'coating' expands and contracts with the Graphite and therefore largely eliminates cracking and spalling. This leads to longer life and increased durability.

Features:

Excellent Thermal and Physical Shock Resistance

Excellent Chemical Resistance

Super High Purity

Usable under Oxidising Conditions

Applications:

Components for single and multi-Crystal Pullers

Susceptors for Epitaxy

Susceptors for CVD

Heaters

Typical Properties of the Base Material

Density (g/cm ³)	Specific Resistance (Ωcm)	Flexural Strength (MPa)	Hardness (Shore)	Thermal Conductivity @RT (W/mK)	Ash Content (ppm)
1.85	11	49	58	116	<5

For the properties of the coated layer please refer to Product Datasheet – Solid SiC