

Specialty Ceramic

Metrology

Solutions for CMM & Motion
Control Equipment

An Excellent choice for high
accuracy equipment



SiC Solution



Rigid & lightweight



Low thermal
expansion



PERFORMANCE CERAMICS & REFRACTORIES


SAINT-GOBAIN

Advancer® NSiC and Silit® SKD SiSiC

Products have been a preferred solution for high accuracy CMM and Motion Control equipment for over a decade

Saint-Gobain Performance Ceramics & Refractories (PCR) offers Silicon Carbide products, based on Siliconized Silicon Carbide (SiSiC) and Nitride bonded Silicon Carbide (NSiC) materials, to deliver high accuracy and speed in industrial metrology, such as CMM and Motion Control Equipment.

Silicon Carbide offers many advantages over traditional ceramic materials.

- Lightweight (~ 20% less)
- High Specific Stiffness (~ 25% higher)
- Low Thermal Expansion (~ 50% less)
- High Thermal Stability



	Density (g/cc)	Specific Stiffness (x 10 ⁶ m ² s ⁻²)	Thermal Conductivity (W/mK)	Thermal Expansion (10 ⁻⁶ up/K)
Granite	2,8 - 2,9	21 - 32	3	5 - 7
Alumina	3,9	96	20	8
Steel	7,8	27	47	12
Aluminum	2,6	26	204	22,5
NSiC, Advancer®	2,8	86	20	4,4
SiSiC, Silit®	3,0	117	140	4,5
SSiC, Hexoloy®	3,1	132	125	4,0

Our SiC solutions includes beams, plates and special shapes for

- CMM bridges and Z-axis
- Guide rails and Air bearing stages

Contact us with questions on sizes and specifications.

For more information: www.ceramicsrefractories.saint-gobain.com

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