

SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

# METROLOGY

SOLUTIONS FOR CMM &  
MOTION CONTROL EQUIPMENT

AN EXCELLENT  
CHOICE FOR HIGH  
ACCURACY  
EQUIPMENT



SiC Solution



Rigid & lightweight



Low thermal expansion



  
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 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.

## BENEFITS



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

	Density (g/cc)	Specific Stiffness ( $\times 10^6 \text{ m}^2 \text{ s}^{-2}$ )	Thermal Conductivity (W/mK)	Thermal Expansion ( $10^{-6}/\text{K}$ )
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
Advancer®: NSiC	2.8	86	20	4.4
Silit®: SiSiC	3.0	117	140	4.5
Hexoloy®: SSiC	3.15	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.**

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For more information:  
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