

Structural Ceramics for Metrology & Precision Measurement Machine Components



Improve Machine Functionality

CoorsTek offers a full line of air-bearing guideway components, structural components, and beams for precision measurement.

High specific stiffness and excellent thermal stability make CoorsTek ceramic beams and stage components ideal for coordinate measurement machines, semiconductor lithography and wafer inspection, flat-panel-display processing, and high-speed electronics assembly applications.

Improve Machine Performance

Isostatically pressed hollow-beam designs permit increased speeds due to higher stiffness and lighter weights. CoorsTek high-purity ceramic materials exhibit extremely low expansion properties — providing exceptional stability for greater accuracy over a wide range of operating temperatures.

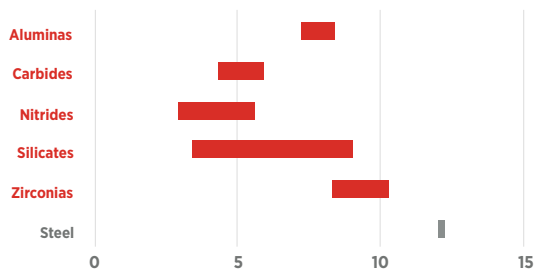
Improved Machine Reliability

With extreme hardness, elasticity, and low reactivity, CoorsTek structured ceramics are long-life, low-wear components which are highly resistant to moisture absorption, corrosion, fatigue, and creep.

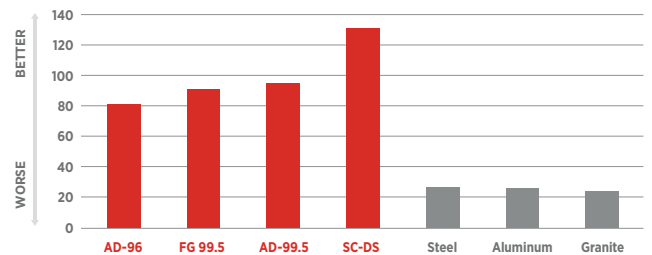
Fabrication Options

- Custom shapes, monolithic components, and assembled structures
- Hollow shapes minimize weight and ensure maximum stiffness
- Large tooling inventories provide dimensional flexibility for designers
- Assembled structures allow matching of critical tolerances and design flexibility.

COEFFICIENT OF THERMAL EXPANSION 25-1000°C



SPECIFIC STIFFNESS (GPa/g/cc)



About CoorsTek

With over 50 manufacturing locations across four continents, CoorsTek is the international partner of choice for companies requiring the unique, high-performance properties of engineered technical ceramics.

COORSTEK

The chart is intended to illustrate typical properties. Property values vary with method of manufacture, size, and shape of part. Data contained herein is not to be construed as absolute and does not constitute a representation or warranty for which CoorsTek assumes legal responsibility. CoorsTek is a registered trademark of CoorsTek, Inc.

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