FCT Ingenieurkeramik GmbH

Mechanical and Apparatus Engineering

FCT Ingenieurkeramik represents more than 30 years experience in ceramic engineering and the production of highperformance materials and composites.

Our ceramic materials offer advantageous properties especially for mechanical engineering:

- corrosion and wear resistance
- high bending strength with excellent fracture toughness
- high stiffness
- low density
- low CTE
- good thermal shock resistance
- temperature stability exceeding 1000 °C
- non-metallic material
- electrically insulating or conducting properties
- heat conductivity similar or higher than steel

In mechanical engineering our Silicon Nitride ceramics are already established in various fields of application.

Wear parts

- agitator arms and lining elements for attrition mills
- guiding elements and beams for machine tools
- wear resistant non coupling parts for induction heating systems
- dosing and ball valves in aggressive and corrosive fluid handling systems
- seal rings for gas and fluid application
- plunger and pistons for wear resistant pumping and dosing systems
- crushing rollers and brackets
- wear resistant screw-conveyors, compaction and pelletiser rollers

Optics

- lens carrier systems for wafer steppers
- housing and carrier structures for cameras and telescopes
- highly stiff structures for mirrors and optical components

Aerospace

- ultra lightweight, highly rigid structures for satellites and telescopes
- supporting systems and platforms for optical devices







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Rauenstein

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Photovoltaics

- wear resistant components for high purity Silicon processing units
- ceramic breaker jaws and compaction rollers
- drive components for coating facilities

Elektronics

- high strength insulators
- protective plates for CVD coater
- plates for wafer probe cards
- carrier structures for wafer treatment
- chucks for wafer machining

Measuring and Inspection Technique

- structural components for high frequency shakers
- wear resistant gauges

Thermal Engineering

- heating and cooking plates
- kiln furniture, burner nozzles
- thermocouple protection tubes
- heating elements

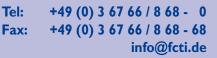
Glass Industry

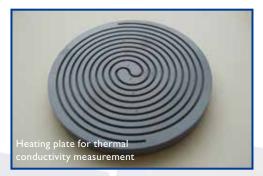
- shear blades for bottle production
- grips and transport plates in contact with hot glass
- agitators for glass melts

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FCT produces ceramic parts based on customer's design particularly out of non-oxide ceramics or composites. For specific application of our customers we also develop custom made materials.

We understand ourselves likewise as a competent consultant for material selection and component design as well as for connection techniques by shrinking, clamping, gluing or soldering.









Ask your questions about ceramics - we find solutions for you!