

A large, grayscale image of a ceramic lattice structure, possibly a honeycomb or similar porous material, is positioned on the left side of the page. The structure is composed of interconnected, rounded rectangular cells, creating a complex, three-dimensional grid. The perspective is from an angle, showing the depth of the structure.

CERAMIC SOLUTIONS FOR DEMANDING APPLICATIONS

Technical overview

Convincing ceramic solutions for your industry sectors

KYOCERA Fin ceramics Precision GmbH offers precise and efficient fine ceramic solutions for a wide range of applications. Whether in mechanical and plant engineering, in the aerospace industry, in the semiconductor industry or in many other industries in which components need to withstand extreme demands: let the unique properties of our ceramic solutions convince you.

Precision, quality and reliability

Our way of working is reflected in every single product. 100% maximum precision along the entire value chain, from powder preparation through the finished component to a careful final inspection in the company. This enables us to offer products of unmistakable quality. As a reliable partner, we therefore always work solution-oriented to enable the most valuable products offered to our customers: Trust and success.



Thanks to many years of experience in the development of high-performance ceramics, Kyocera covers a wide range of requirements in the field of non-oxide ceramics (SSiC, SiSiC, Si₃N₄) and oxide ceramics (ZrO₂, Al₂O₃, Al₂TiO₅) with its **StarCeram®** materials for mechanical and plant engineering, foundry technology and the semiconductor industry.

Flexible manufacturing processes make it possible to react to customer requirements regarding geometry or material properties.

The versatile application possibilities of ceramic products are based on the specific properties with which they are superior to other materials in many respects.

Innovative solutions for demanding applications

From the single piece to the finished series production we offer you highest flexibility and at the same time outstanding results.

Our engineers work daily on the development of innovative products for new applications and industries. Our high-performance ceramic products redefine standards with maximum safety and precision.

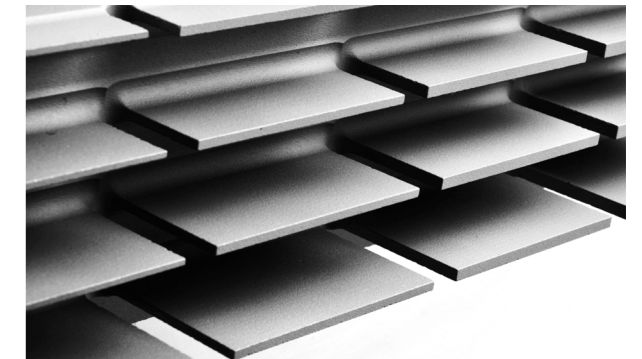


Our materials for your application

StarCeram® Si (SiSiC)

StarCeram® Si is the only high-performance ceramic to offer 0% shrinkage during sintering. Therefore, large and complex components with undercuts, cooling channels and many other challenging design elements are possible. Structure sizes down to less than 1 mm are possible utilizing wire and sinking EDM.

In addition, there is a high stiffness and strength with extreme homogeneous material properties, which allows novel solutions with StarCeram® Si, which cannot be realized with metals or other ceramics.



StarCeram® S (SSiC)

The excellent chemical resistance to most acids and alkalis makes SSiC the most common material in the chemical industry, e.g. for sealing rings, bearings, bushings and shaft sleeves. The sintered SiC StarCeram® S also features high wear resistance combined with high strength and hardness.



Good thermal shock resistance as well as high thermal conductivity and outstanding corrosion resistance, even in high temperature ranges, facilitates an application at high temperatures, e.g. for the dissipation of process heat.

StarCeram® N (SSN)

The sintered silicon nitride StarCeram® N exhibits a combination of excellent material properties that make it suitable for a wide range of applications.

- ▶ Low density and very high specific strength
- ▶ High stiffness, strength and fracture toughness
- ▶ Low coefficient of thermal expansion with high thermal conductivity
- ▶ Extremely low wear

These properties make StarCeram® N the preferably selected material for complex structures and precise geometries in lightweight structures, optical systems or wear parts.





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