



Application Fields of Ceramic Materials

Mechanical Engineering, Equipment Engineering, Mobility Engineering



Due to their specific material characteristics, ceramic components have earned a respected position in modern engineering. Often located in the most demanding sites of machinery, process equipment or crafts advanced ceramic components often contribute decisively to the performance of the product or process.

Contact

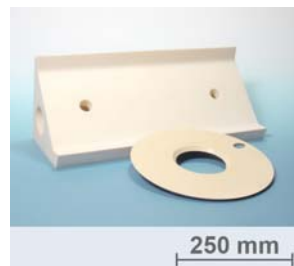
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Mechanical Engineering

High performance ceramic components fulfill many key functions in various areas of mechanical engineering.

Examples:

- Pistons, plungers and pump linings
- Metal forming dies for sheet metal and wires
- Insulators and reflectors for laser equipment
- Grinding tools and wear protecting components for milling machinery



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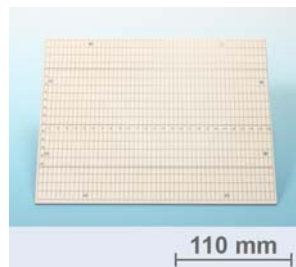
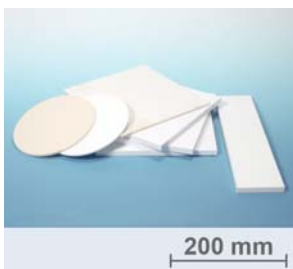
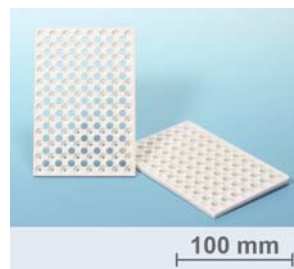
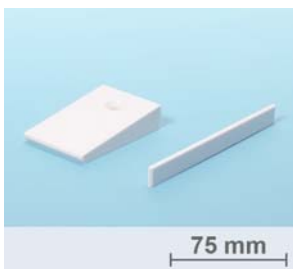


Equipment Engineering

In order to minimise wear and prevent corrosion key components in modern equipment are often made of advanced ceramics. Ceramic materials help to reduce product contamination in high temperature equipment or metering devices, e. g.

Examples:

- Setters for high temperature kilns
- Lining of heat treatment equipment
- Metallurgic Nozzles
- Wear protection elements for paper and textile industry
- Fixtures for welding and brazing
- Components in conveyor and processing equipment for mineral raw materials
- Wear parts with high mechanical strenght for oil and gas exploration and processing
- Clean-room parts for the semiconductor industry



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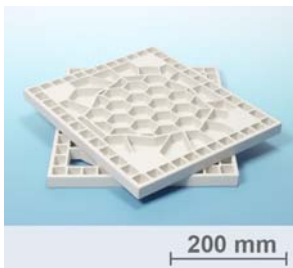


Mobility Engineering

Naval architecture, vehicle construction and air craft design increasingly work with components made from advanced ceramics. Ignition plugs, catalyst carriers and light weight fire protection parts are just some well known applications.

Examples:

- Wear and corrosion protection parts
- Catalyst carriers
- Engine components
- Light weight fire protection plates
- Military armour
- Sensor components
- Heat exchangers
- Spark plugs, ignition plugs



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