

THE CERAMIC EXPERTS

Wherever Peak Performance is Key.

In Environmental Applications

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At Home

Whether at home, in the office, in industrial manufacturing, in hospitals or on the road:

We are surrounded by products made from technical ceramics that deliver peak performance – and we usually don't even realize it.

They are used where other materials reach their limits: under enormous stress, in extreme temperatures, under current – and even in the human body. They provide reliable solutions in all types of industrial production and high-tech applications. Technical ceramics get us safely and comfortably to where we are going and provide us with clean energy using more efficient technologies. We communicate digitally on smaller devices and benefit from improved quality of life. Take a look at our brochure and discover all the places you can find advanced ceramics.

















In Environmental Applications





Filters for water treatment



sensor elements in biogas plants



Seal rings, bearing bushes and shells in pumps for hydroelectric power plants



Plasma chambers for coating solar cells



Ceramic mill linings for processing raw materials for glass

Bearings and bushings in drives for photovoltaic systems



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Insulation rings for thermal decoupling in solar systems



Wire drawing cones for the production of power lines; rolls for rolling flat wires in photovoltaic systems



Piezo-ceramics for energy harvesting



Pipe linings and components for transporting abrasive bulk materials such as coal dust



Tensiometer cells for soil analysis





CeramTec



Substrates for circuits in hearing aids and pacemakers

Piezo-ceramics for plaque removal

In Industrial Manufacturing









Integrated membranes for measurement and control technol ogy in temperature and pressure sensors



Seal rings, bearings, bearing shells, insulating rings and valves in mechanical engineering and robotics

Substrates as circuit carriers for electron machine control



Cutting materials and tool systems for machining cast iron, hardened steels and hardto-machine materials



Thermally and dimensionally stable guide elements and moving components for precision measuring machines



Wire drawing components for wire and cable production



Ceramic screws and bolts



Components for bending and forming metal as well as punching standards and positioning jaws for sheet metal



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Piezo-ceramic sensor elements in equipment and mechanical engineering



Piezo ceramics for ultrasonic cleaning and ultrasonic welding



Ceramic heat-sinks – also with liquid cooling – for high electronic power densities, e.g. in UV-LED systems for drying paints

In Metal Processing and Machining

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Components for bending and forming metal as well as punching standards and positioning jaws for metalworking

Protection tubes for temperature measurement



Cores for the production of cavities in casting components



Tubes, slide valves and nozzles for guiding molten masses



SPK cutting materials and tool systems for machining cast iron, hardened steels and hardto-machine materials



Sliding blocks for heat treatment plants



Metal matrix composite (MMC) preforms for material reinforcement and light-weight construction

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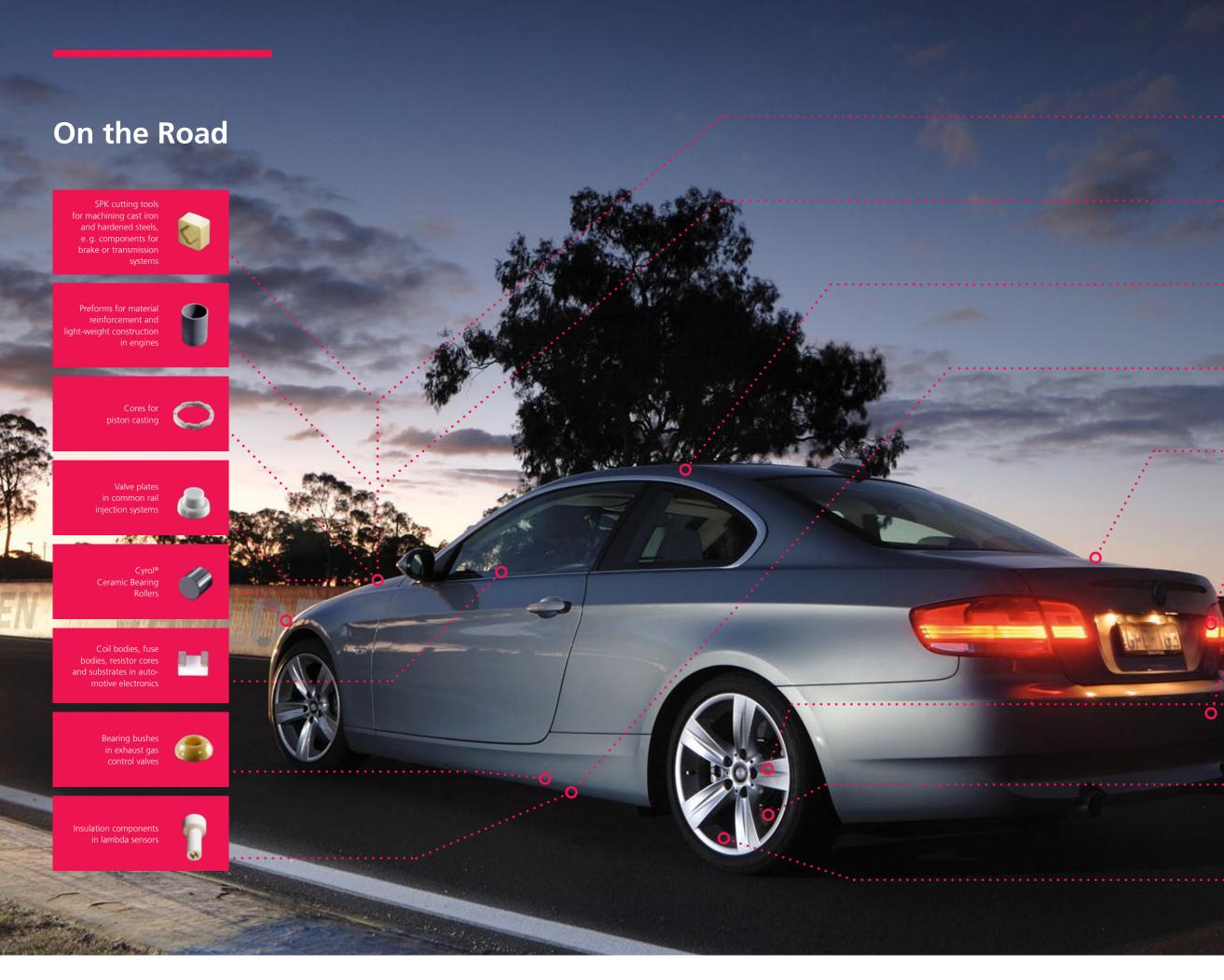


Ceramic wear linings for transporting abrasive bulk materials



Gas nozzles, centering standard molds, welding rollers in welding applications and nozzles for laser processes





CeramTec



Axial bearings/seal rings in coolant pumps



Circuit boards in oil pressure sensors for measuring oil level and pressure



Welding nozzles and centering pins for MAG welding in car body construction



CeramTape ceramic tapes for hybrids in control elements and lambda sensors



Side plates in fuel pumps



CeramCool heat-sinks for LED lighting systems



Piezo-ceramic elements as signal transmitters and receivers in distance sensors and signal transmitters in knock sensors



Risers for aluminum casting of alloy rims



Insulation rings in brake calipers



Cam discs in ABS modulators



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