

Интеллектуальные решения с использованием силикатной керамики

Техническое описание

По вопросам продаж и поддержки обращайтесь:

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COMPONENTS

- Heating element cores for industrial hot-air fans
- Insulators for current-carrying components in furnaces and heating cabinets
- Heating element cores for high-performance furnaces, fan heaters, tumble dryers, etc.
- Flame guide tubes
- Pilot jets for flame guidance in gas heaters
- Flame cooling rods for NOX reduction in gas burners
- Ignitor tubes for igniting air/fuel mixtures
- Evaporation wicks for aromatics and insecticide emission testing
- Rods and runners for chemical lab specimen tests



OUR COMPETENCE

- Complex geometries
- Miniature to very large sizes
- Extremely thin-walled components
- Small to large-scale production
- Materials expertise
- Very tight tolerances
- Maximum stability over component service life
- Joining technology
- Fluid absorption capacities (15 to 40%) with constant release
- White high-purity material causing no flame discoloration

Heiße Lösungen mit großer Wirkung

Effective high-temperature solutions

During generation and use of heat, the efficient conversion of electrical power into hot air or heat is one key factor. Components made of technical ceramics can contribute significantly to improve the efficiency of heating and thermal engineering systems. In addition, the materials used in high-temperature processes must withstand very high and fluctuating loads:

- Temperature resistance
- Resistance to thermal cycling stresses
- Electrical insulation
- Dimensional stability
- Resistance to thermal shock
- Corrosion resistance
- Long life time

These are key properties found in the materials CeramTec has developed specifically for heating and thermal engineering.



Ceramic Competence in Wick Technology

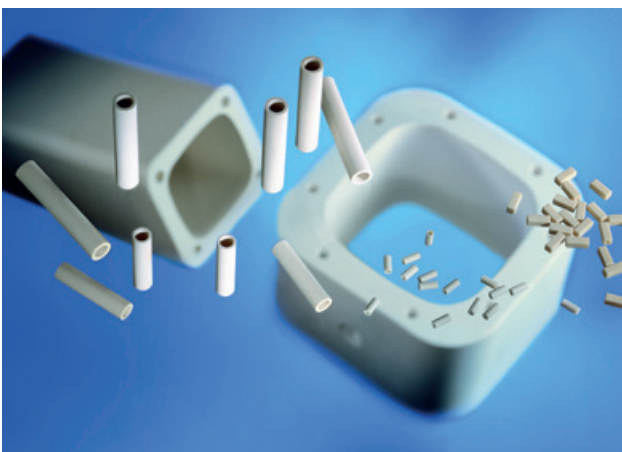
Certain ceramic materials are known for their high porosity. We use these materials to produce ceramic shapes capable of absorbing, storing and releasing fluids at defined rates – a quality required in testing the evaporation behavior of insecticides and aromatics or in identifying chemical compounds by flame colour tests in the laboratory. We manufacture such wicks to different levels of porosity, precisely defined for a given application. This allows the exact determination of absorption capacity while ensuring a uniform evaporation of accurately defined quantities of fluid.



INNOVATIVE SOLUTIONS

- reliable electrical insulation
- low thermal conductivity
- minimized and tunable coefficient of thermal expansion
- high strength
- challenging geometries
- tighter tolerances compared to other ceramic materials
- excellent value for money

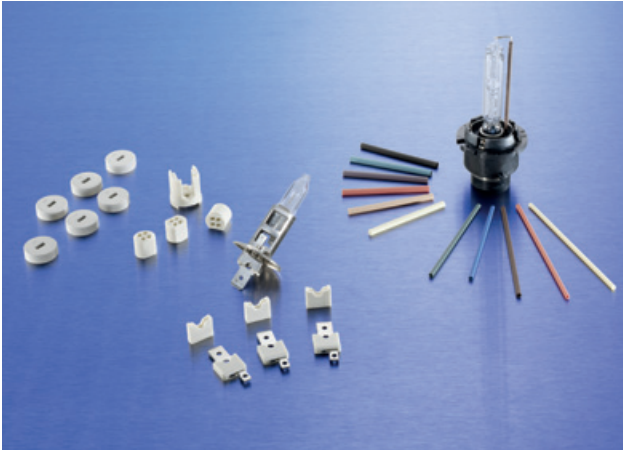
Applications/ Products:



Electronic Fuses and Circuit Breaker

- Tubes and SMT fuse bodies
- Insulator bodies for low-voltage high-performance fuses
- Fuse carriers for high-voltage high-performance fuses
- Arc plates for the insulation of plastic enclosures against arc discharge

Applications/ Products:



Automotive

- Sockets and system parts for halogen lamps
- Insulation tubes and system parts for automotive HID-lamps
- Insulation parts for temperature sensors for auxiliary heating systems
- Discs, insulators, and other system parts



Insulating and Temperature Control Technology

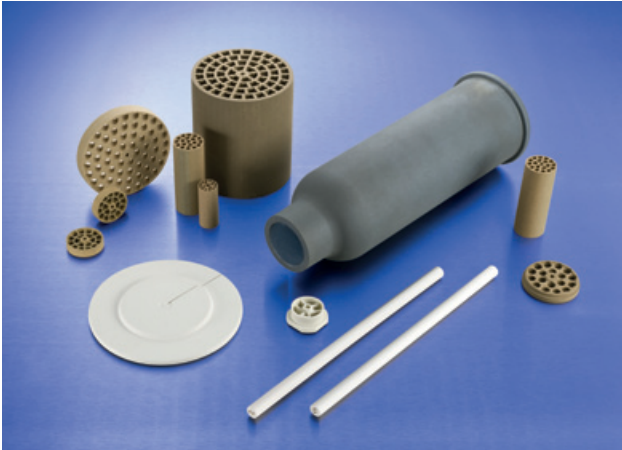
- Limiter tubes for thermostats
- Thermostat bases (housings)
- Insulating components for electrical switches
- Terminal bases
- Insulators in high frequency electric fields



Standoff Insulators for Radio Frequency

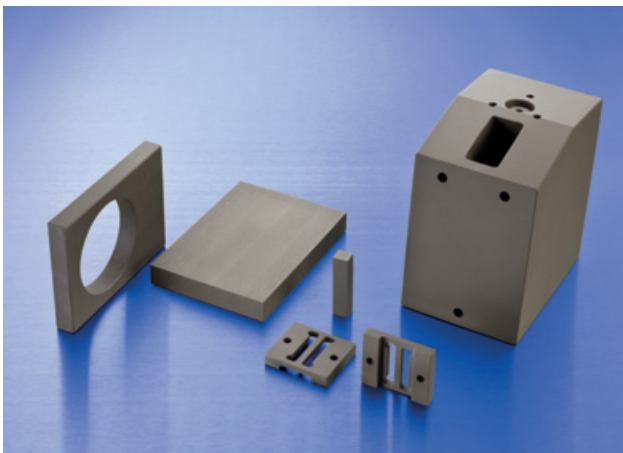
- A distinguish feature of ceramic standoff Insulators is the low power loss in the radio frequency field. The high strength of the material Frequentia (E-module 120,000N/mm) is highly recognized in many applications where precision is of particular interest. The electrical values, in particular the high insulating capacity give the ceramic standoff insulators excellent properties.

Applications/ Products:



Heating and Thermal Engineering

- Heating element cores for industrial hot-air fans
- Electrical insulators for high temperature applications
- Heating element cores for high-performance furnaces, fan heaters, tumble dryers, etc.
- Pilot jets for flame guidance in gas heaters
- Flame cooling rods for NOX reduction in gas burners
- Ignitor tubes for igniting air/fuel mixtures
- Evaporation wicks for fragrances and insecticide emission testing
- Rods for chemical lab specimen tests



Precision Engineering

- High precision housings and guide components
 - Bases
 - Sensing arms
 - Holders for measuring probes
 - Guideways / sliding rails
 - Spindle sleeves
- Support elements
(spacers for high-temperature applications)

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