

## High-performance Ceramic Alumina OK 997

Machine components made from OK997, a high-purity and dense alumina ceramic, can be used for many different purposes.

They have an excellent property profile, being highly resistant to corrosion and wear and to temperature and pressure.

Their electrical insulation capability and dielectric strength must be emphasised.

Also many shapes are possible and in consultation with our customers we are constantly creating new potential applications.

The specially designed ceramic rails and connecting components are very robust and durable, thus guaranteeing minimum downtime. Screws and threaded inserts can also be made out of OK997.

The gas-tight and very pure alumina ceramic OK997 can also be used in vacuum and high-vacuum environments.

## Machine Components for Ultimate Quality Criteria

Alumina OK 997 offers a unique property profile:

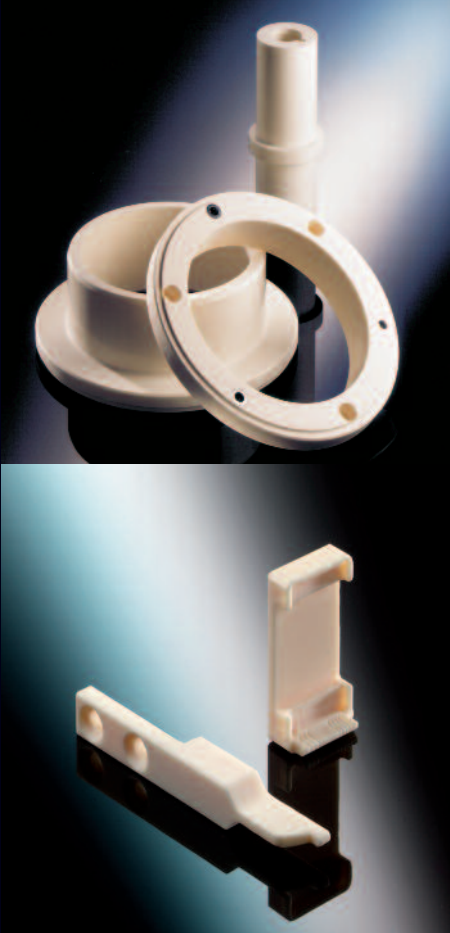
- > very high resistance to corrosion
- > high resistance to wear
- > high temperature resistance
- > very good electrical insulation
- > high dielectric strength
- > wide variety of shapes
- > precision in the  $\mu\text{m}$  range
- > high compressive strength



In the papermaking or packaging industry OK 997's extreme resistance to wear plays an important role. Here it is also a matter of cost and efficiency, as the high form stability and low abrasion facilitates high production rates.

## Alumina OK 997

# OK 997



### Component Design

- Depending on the design, dimensions of up to Ø 450 mm, or up to Ø 600 mm are possible
- High surface pressure (2000 MPa)

### Profile at a Glance

- High-purity 99.7% alumina
- Temperature stability up to 1500 °C
- High hardness
- Low specific density (3,90 g/cm<sup>3</sup>)
- Extreme corrosion resistance
- Extreme wear stability

### Special Characteristics

- Dielectric behavior
- Electrically insulating
- Spec. volume resistance  $5 \times 10^{14} \Omega \text{cm}$
- High dielectric strength 20 [kV/mm]
- Thermal conductivity 28 W/m K

### Delivery Time

Depending on the component design, our production organisation enables us to offer maximum delivery flexibility.

#### Tradition

As an independent family-owned company, we have been a leading developer and manufacturer of technical ceramic components for 40 years.

#### Personality

The proximity and personal relationship to the customer is as important to us as is the highest quality of our products. You have chosen a reliable partner in us.

#### Development

We produce customised ceramic components in cooperation with the customer. Take advantage of our know-how to find an appropriate ceramics solution for your application.



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