

High-performance Ceramic Alumina OK 997

Alumina OK 997 plays a leading role in technical ceramics and offers excellent durability against wear and corrosion, as well as extreme temperature stability and high flexural strength.

Thanks to the property profile sealing components made of OK 997 assure operational reliability and a long service life.

With a low peripheral speed the gliding properties of OK 997, a high-purity alumina ceramic, are so good that lubrication can be partially or completely dispensed with.

With sealing discs made of OK 997 the surface quality is of paramount importance. A special smoothness and excellent surface quality are required.

Pump pistons made from OK 997 are highly resistant to corrosion and to wear. They seal tightly even without an O-ring. Dosing pistons, sliding bearings, shaft protection sleeves and sliding rings are often used in chemical manufacturing.



Sealing Elements for Ultimate Quality Criteria

Alumina OK 997 offers a unique property profile:

- > very high resistance to corrosion
- > high resistance to wear
- > extreme temperature stability
- > application in hygiene and food-processing areas
- > form and aging stability
- > high surface quality
- > good gliding properties
- > moderate thermal conductivity



With filling and dosing applications in the field of hygiene, OK 997 constantly offers new engineering possibilities.

Thanks to their physiological safety, high-purity and dense ceramic components made from OK 997 can be used in the fields of food-processing and pharmaceuticals.



OK 997

Alumina OK 997

Component Design

- Depending on the design, dimensions of up to \varnothing 450 mm, or up to \varnothing 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/cm³)
- Extreme corrosion resistance
- Extreme wear stability

Special Characteristics

- Dielectric behavior
- Electrically insulating
- Spec. volume resistance $1 \times 10^{14} \Omega\text{cm}$
- 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 more than 50 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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