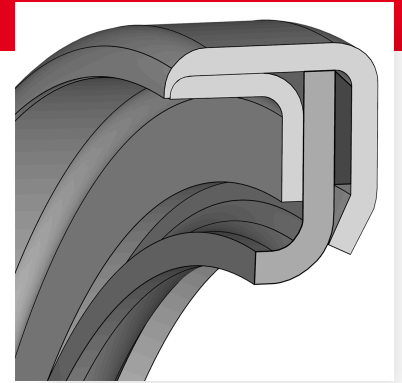




DICHTOMATIK

Radial shaft seal WCP

DESCRIPTION

- Without tension spring
- Open metallic outer jacket
- Without protective lip
- PTFE sealing lip without spring

FUNCTION

- Dynamic sealing of rotating shafts, independent of direction of rotation
- Metallic outer jacket ensures tight and precise fit
- Stiffening plate ensures increased rigidity
- Only limited static sealing between sealing lip and shaft at standstill
- Limited sealing of low-viscosity and gaseous media and in split housings

CONFORMITY AND CERTIFICATES

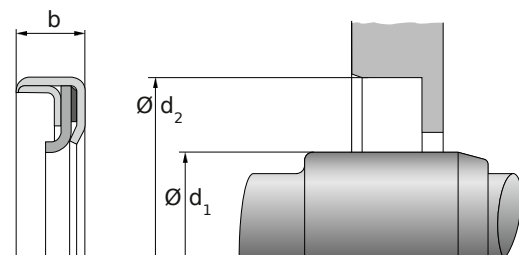
- Please consult the material data sheet valid for the respective material for current information on approvals and certificates, as this information depends on the compound and cannot be listed exhaustively here.

PRODUCT ADVANTAGES

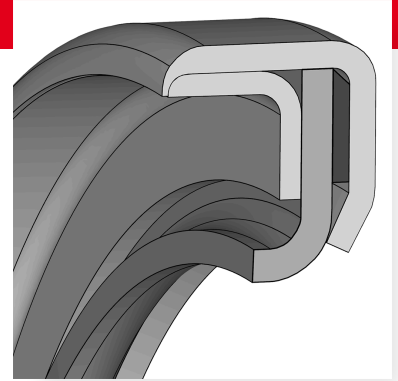
- High chemical resistance
- Low friction
- Long service life
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- Tight fit in installation space (interference fit)
- Suitable for high-temperature applications
- No stick-slip effect
- Good price/performance ratio
- Manufactured by certified external suppliers
- Suitable for dry running and deficient lubrication
- Anti-adhesive (stick-slip-free behavior)

APPLICATIONS

- Sealing of rotating machine elements (shafts, hubs, axles)
- Sealing of aggressive chemicals
- Use at high circumferential speeds, high pressures and high temperatures
- Use with dry running and insufficient lubrication



DICHTOMATIK



Radial shaft seal WCP

DESIGN GUIDELINE

- Shaft must be provided with a chamfer for mounting
- Design of the installation space is recommended in accordance with DIN 3760.
- Roundness of shaft - tolerance class IT8 - free of twists, burrs and damage of any kind
- Shaft tolerance zone: ISO h11
- Hardness of shaft surface min. 45 HRC
- Housing surface roughness $R_z = 10$ to $20 \mu\text{m}$
- Housing tolerance zone: ISO H8

INSTALLATION GUIDELINE

- Design the installation space so that the oil seal is supported axially
- Clean the installation space carefully before installation, remove dust, dirt, metal chips, etc.
- Do not pull the seal over sharp edges, threads, or keyways during installation; cover with an installation sleeve if necessary
- Do not grease the seal or installation space for assembly
- Careful installation on the shaft, tilting is not permitted

STORAGE ADVISE

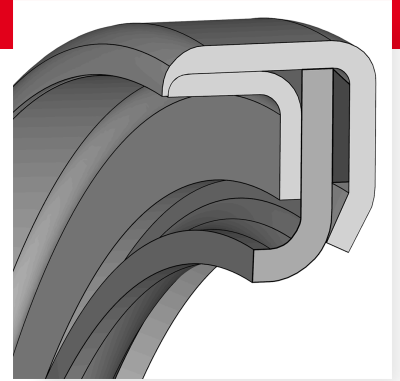
- Storage temperature $< 25^\circ\text{C}$
- No direct heat sources
- No condensation in the storage room
- No exposure to ozone or ionizing radiation
- Recommendations based on the revision of ISO 2230 dated 16.09.1992

Pressure [MPa]

PTFE
1

Sliding speed [m/s]

PTFE
25



Radial shaft seal WCP

Temperature [°C]

PTFE

-90...250

The values given are based on a limited number of tests on standard test specimens (2 mm sample plates) from laboratory production. The data determined from finished parts may deviate from the above values depending on the manufacturing process and the part geometry.

The information provided herein is based on laboratory tests and on data sources deemed reliable. It constitutes general, non-binding guideline values and does not represent any guarantee of specific properties or suitability for a particular purpose. The suitability of a product for a specific application depends on the actual operating conditions and a variety of factors. Full testing and performance evaluation of the final product are the responsibility of the user. Freudenberg FST GmbH | www.fst.com

