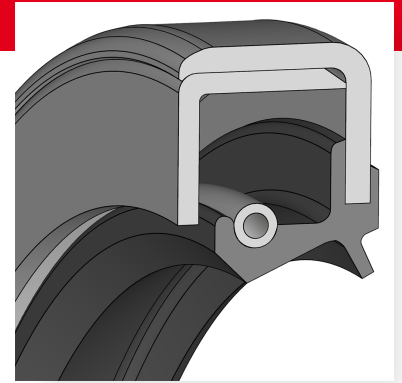




Radial shaft seal WCS

DESCRIPTION

- With tension spring
- With protective lip
- Closed metallic outer jacket with stiffening plate

FUNCTION

- Dynamic sealing of rotating shafts, independent of direction of rotation
- Good static seal between sealing lip and shaft at standstill
- Metallic outer jacket ensures tight and precise fit
- Protective lip against dirt accumulation from outside
- Stiffening plate ensures increased rigidity
- Limited sealing of low-viscosity and gaseous media and in split housings
- Stronger friction can lead to temperature increase

PRODUCT ADVANTAGES

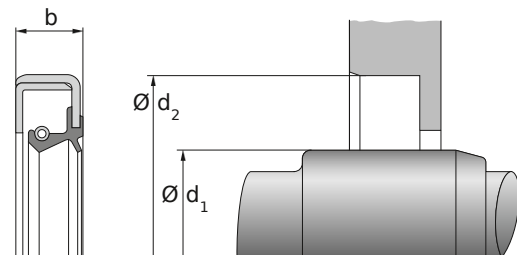
- Tight and precise fit
- Long service life
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- Protection against moderate to medium dust and dirt accumulation from outside
- Suitable for difficult installation conditions or for larger diameters
- Good price/performance ratio
- Manufactured by certified external suppliers

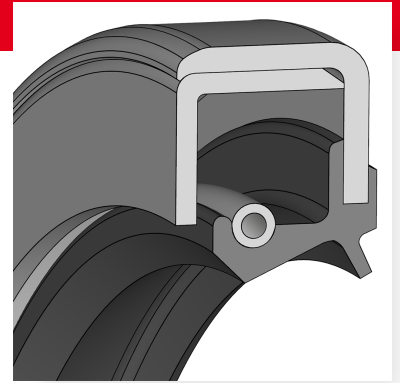
APPLICATIONS

- Construction and agricultural machinery
- Heavy mechanical engineering
- Rolling mills
- Wind power plants

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.





DICHTOMATIK

Radial shaft seal WCS

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

- 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

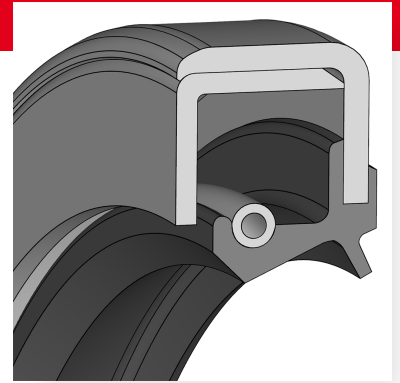
- Storage temperature $< 25^\circ\text{C}$
- No direct heat sources
- No direct sunlight
- No condensation in the storage room
- Recommendations based on the revision of ISO 2230 dated 16.09.1992



DICHTOMATIK



FREUDENBERG
SEALING TECHNOLOGIES



Radial shaft seal WCS

Pressure [MPa]

NBR

0.05

Speed [m/s]

NBR

8

Temperature [°C]

NBR

-40...80 (a)

a = short-term 100°C

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