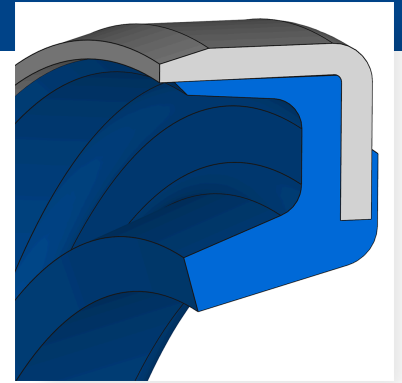




Radial shaft seal Simmerring® B1OF

DESCRIPTION

- Without tension spring
- Open metallic outer jacket
- Without protective lip

FUNCTION

- Dynamic sealing of rotating shafts, independent of direction of rotation
- Simple sealing against grease or additional sealing against dust and dirt accumulation
- Metallic outer jacket ensures tight and precise fit
- Self-retaining
- Only limited static sealing between sealing lip and shaft at standstill
- Limited sealing of low-viscosity and gaseous media and in split housings
- Additional gluing of the seal into the housing is recommended
- Design without tension spring creates less friction, but also less sealing effect
- Not recommended for oil sealing

PRODUCT ADVANTAGES

- Low friction
- Highest quality
- Longest service life
- Highest functional reliability

APPLICATIONS

- Sealing of pivot bearings and actuators
- Power tools

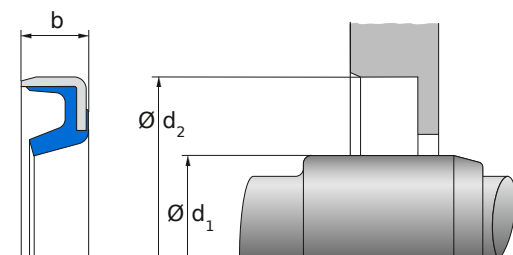
APPLICATION LIMITS

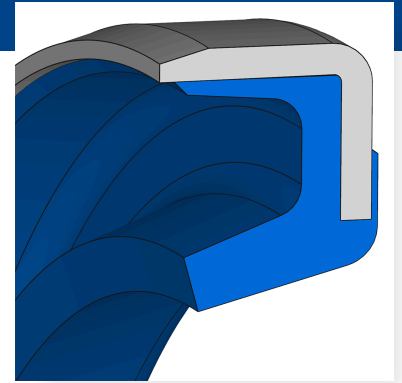
- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.



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.





Radial shaft seal Simmerring® B1OF

DESIGN GUIDELINE

- Please refer to the technical manual for design
- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.



STORAGE ADVISE

- Storage temperature <25°C
- No direct heat sources
- No direct sunlight
- 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

INSTALLATION GUIDELINE

- The prerequisite for perfect function of the seal is careful installation in accordance with the technical manual.
- Recommendation: Design the installation space so that axial support in the housing
- Please refer to the technical manual for further installation instructions.
- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.



Permissible low temperature [°C]

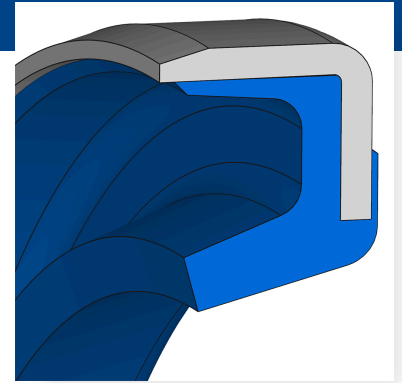
72 NBR 902

-40*

75 FKM 595

-30*

* The low-temperature limit depends on shaft runout.



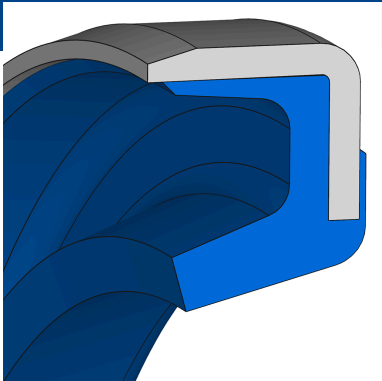
Radial shaft seal Simmerring® B1OF

Temperature [°C]

Medium	72 NBR 902	75 FKM 595
Engine oils	100	150
Gear oils	100	150
Hypoid gear oils	80	140
ATF oils	100	150
Greases	100	150
Polyalkylene glycols (PAG)	(a)	(a)
Polyalphaolefins (PAO)	(a)	(a)
HLP according to DIN 51524 part 2	100	150
HLVP according to DIN 51524 part 3	100	150
HETG rapeseed oil*	(b)	(d)
HEES – synthetic esters	(b)	(d)
HEPG – polyglycols**	(b)	(d)
Group HFA**	(b)	(b)
Group HFB**	(b)	(b)
Group HFC**	(c)	(c)
Group HFD***	(c)	150
Heating oil EL and L	90	(c)
Brake fluid DOT 3 / DOT 4	(c)	(c)
Water**	(c)	(b)
Washing solution**	(c)	(b)



Radial shaft seal Simmerring® B1OF



Temperature [°C]

Medium	72 NBR 902	75 FKM 595
Air	100	200

a = When using FKM materials in synthetic lubricants (PAG and PAO), the maximum operating temperature must be determined by testing or a system trial.

b = conditionally resistant

c = not resistant

d = resistant, but generally not used for these media

* Operating limits are defined by the fluid

** Additional lubrication recommended

*** Resistance depends on the HFD type

Temperature range at the sealing lip [°C]

72 NBR 902	75 FKM 595
-40...100	-30...200

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