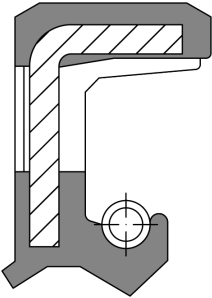


## OS-N21



### Description

- Pressure loadable radial shaft seal
- Elastomer-coated OD, flat
- Short spring-loaded sealing lip
- Protective lip against entry of contamination from outside (dust, dirt,...)

### Special features

- Pressure loadable due to special sealing lip design
- Reliable static sealing inside housing
- For housings with high thermal expansion, e.g., light metal housing
- For split housings
- For housings with increased surface roughness
- For sealing thin-body and gaseous media
- No risk of fretting corrosion
- Efficient protection against air side contaminations

### Applications e.g.:

- Rotating / pressurized applications
- Pressurized units such as pumps or hydraulic motors

### Materials

#### Standard material

Elastomer	NBR 80 blue
Spring	Spring steel according to DIN EN 10270-1
Metal case	Carbon steel according to DIN EN 10139

### Special materials

Elastomer	FKM
	Silicon
	ACM
	HNBR
	CR
	EPDM
Spring	Stainless steel 1.4301
Metal case	Stainless steel 1.4301

### Application parameters

for the standard materials combination

Temperature	-40°C to +100°C
Pressure	acc. to table „Operating parameters for rotary shaft seals“
Shaft speed	acc. to chart „Operating parameters for rotary shaft seals“
Media	Mineral oil based lubricants, synthetic lubricants

When synthetic lubricants are used for which there is no empirical experience, test the compatibility in the laboratory or - better even - in practical trials. The operating temperature should not exceed 80°C.

### Design information

#### Shaft

Tolerance	ISO h11
Hardness	min. 45 HRC
Roughness	$R_a = 0.2 - 0.8 \mu\text{m}$ $R_z = 1 - 5 \mu\text{m}$ $R_{\text{max}} \leq 6.3 \mu\text{m}$
Surface finish	free of orientation (lead free)

#### Housing bore

Tolerance	ISO H8
Roughness	$R_a = 1.6 - 6.3 \mu\text{m}$ $R_z = 10 - 20 \mu\text{m}$ $R_{\text{max}} \leq 25 \mu\text{m}$

### Installation

Please read our installation instructions.