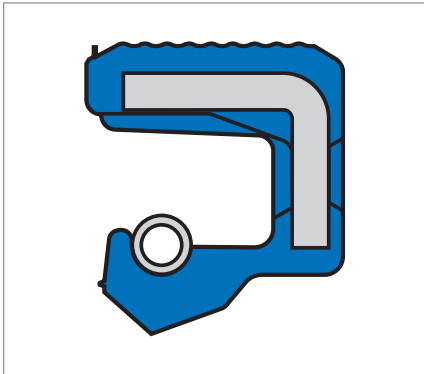


## Simmerring BAUM.../SL

Simmerring BAUMX7, BAUMSLX7, BAUM, BAUMSL



Simmerring BAUM ...



Simmerring BAUMSL ...

### Product description

Standard types according to DIN 3760 with outer elastomer sleeve and spring-loaded fluorine rubber sealing lip for high thermal and chemical requirements. Available with or without additional dust lip to protect against light to medium levels of exterior soiling.

### Product advantages

- Broad range of possible applications in every sector of industry
- Increased thermal stability and chemical resistance
- Reliable sealing of the housing bore, even with increased roughness of the bore, thermal expansion and split housings, thus a sealing of low viscosity and gaseous media also possible
- Advantages when sealing low viscosity and gaseous media
- Additional dust lip as additional seal against moderate and medium dust and dirt ingress from outside (BAUMSLX7).  
(Note: can lead to temperature increase from frictional heat)

### Product properties

- Outer casing: elastomer (smooth, grooved = X7)
- Spring-loaded sealing lip
- Additional dust lip (BAUMSL, BAUMSLX7)
- Friction-optimised sealing lip profile

### Application

- Axles (when subject to moderate dirt)
- Power tools
- Industrial gearboxes
- Agricultural and construction machinery transmissions

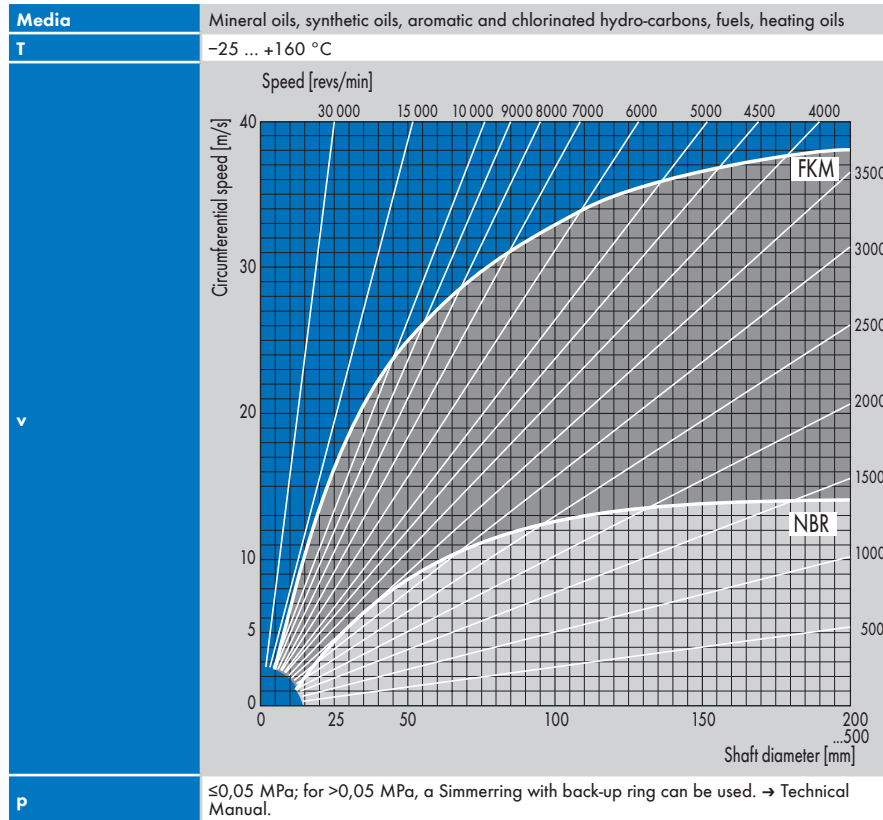
### Material

|          |                  |
|----------|------------------|
| Material | Fluoro elastomer |
| Code     | 75 FKM 585       |
| Colour   | Dark brown       |
| Hardness | 75 Shore A       |

### Components

|              |                                |
|--------------|--------------------------------|
| Metal insert | Unalloyed steel DIN EN 10027-1 |
| Spring       | Spring steel DIN EN 10270-1    |

### Operating conditions



Permissible circumferential speed for Simmerrings made from the materials NBR (72 NBR 902) and FKM (75 FKM 585) for the sealing of motor oil SAE 20. Use Simmerring with SL (dust lip):  $v = \text{max. } 8 \text{ m/s}$

Max. permissible values depend on the other operating conditions.

### Fitting & installation

Careful fitting according to DIN 3760 is a prerequisite for the correct function of the seal → Technical Manual.

#### Shaft

|                  |                                       |
|------------------|---------------------------------------|
| <b>Tolerance</b> | ISO h 11                              |
| <b>Runout</b>    | IT 8                                  |
| <b>Roughness</b> | $R_a = 0,2 \dots 0,8 \mu\text{m}$     |
|                  | $R_z = 1,0 \dots 5,0 \mu\text{m}$     |
|                  | $R_{\text{max}} \leq 6,3 \mu\text{m}$ |
| <b>Hardness</b>  | 45 ... 60 HRC                         |
| <b>Finish</b>    | No lead; preferably plunge ground     |

#### Housing bore

|   |                                 |
|---|---------------------------------|
| <b>Tolerance</b>                        | ISO H8                          |
| <b>Roughness metal outer surface OD</b> | $R_z = 10 \dots 25 \mu\text{m}$ |

#### Range of dimensions for shafts-Ø d1

|                             |              |
|-----------------------------|--------------|
| <b>Simmerring BAUM...</b>   | 6 ... 220 mm |
| <b>Simmerring BAUM...SL</b> | 8 ... 220 mm |