

Simmerring Combi Seal SF19

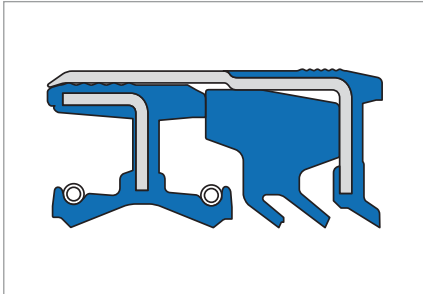


Fig. 1 Simmerring Combi Seal SF19

Product description

- Design: special types, on enquiry
- Combination of a Simmerring and an additional seal against dirt from the outside in one housing
- Spring-loaded sealing lip
- Additional dust lip for preventing the ingress of dirt and for protection under extreme operating conditions
- Primarily for usage in all applications with high level of soiling, e.g., in axles for off-road vehicles
- Use preferably instead of the Simmerring Cassette Seal in case of superimposed rotational and translation movements.

Product advantages

- Long service life
- High resistance to dirt ingress due to the optimal positioning of sealing lip and dust lip.

Performance in relation to dirt from the outside

- High resistance to dirt from the outside. Suitable for protection against sludge.

Application

- Agricultural machinery
- For extreme dirt ingress and critical applications
- Drives for agricultural vehicles and in general industry.

Material

Acrylonitrile-butadiene rubber

Code	75 NBR 106200
Colour	Black
Hardness	75 Shore A

Fluoro elastomer

Code	75 FKM 595
Colour	Red brown
Hardness	75 Shore A

Metal insert	Unalloyed steel DIN 1624 – EN10139
Spring	Spring steel 17223
Dirt wiper	Polyurethane (AU)

Operating conditions

Materials combination	NBR/AU	FKM/AU
T	to +80 °C	to +100 °C
v	to 4 m/s	to 6 m/s
p	max. 0,05 MPa/0,5 bar	max. 0,05 MPa/0,5 bar

For material definitions, it must be taken into account that it is possible that not all extreme conditions will occur simultaneously.

Fitting & installation

Shaft

Tolerance	ISO h11
Runout	IT 8
Roughness	$R_a = 0,2 \dots 0,8 \mu\text{m}$
	$R_z = 1,0 \dots 5,0 \mu\text{m}$
	$R_{\text{max}} = \leq 6,3 \mu\text{m}$
Hardness	45 ... 60 HRC
Finish	No lead; preferably plunge ground

Housing bore

Tolerance	ISO H8
Roughness	$R_z = 10 \dots 16 \mu\text{m}$

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

Further information on enquiry.

Range of dimensions for shafts $\varnothing D_1$

Simmerring Combi Seal SF19	37 ... 75 mm
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Article list

D ₁	D ₂	b	Material	Article No.	
30	44	17	75 NBR 106200	12020067	<input type="radio"/>
40	65	27,5	75 NBR 106200	12020191	<input type="radio"/>
42	62	23	75 NBR 106200	12020023	<input type="radio"/>
45	75	27,5	75 NBR 106200	12020036	<input type="radio"/>
47	65	19	75 NBR 106200	12020133	<input type="radio"/>
52	72	16,5	75 NBR 106200	12020074	<input type="radio"/>

● Available from stock ○ On request: Tool is available, delivery at short notice