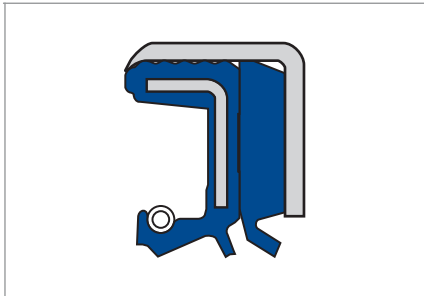


# SIMMERRING COMBI SEAL SF5



## PRODUCT DESCRIPTION

The Simmerring Combi Seal consists of at least two mounted elements which are preferably used in agricultural and construction machinery. In addition the PU element in this system can provide effective sealing for small axial motions.

## 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.

## PRODUCT PROPERTIES

- 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
- 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

## APPLICATION

- Drives (agricultural vehicles, general industry)
- Agricultural machinery

## MATERIAL

<b>Material</b>	Acrylonitrile-butadiene rubber
<b>Code</b>	75 NBR 106200
<b>Colour</b>	Black
<b>Hardness</b>	75 Shore A

## Components

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

## OPERATING CONDITIONS

<b>T</b>	≤ +80 °C
<b>v</b>	≤ 4 m/s
<b>p</b>	≤ 0,05 MPa

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

## FITTING & INSTALLATION

### Shaft

<b>Tolerance</b>	ISO h 11
<b>Runout</b>	IT 8
<b>Roughness</b>	$R_a = 0,2 \dots 0,8 \mu\text{m}$
	$R_z = 1,0 \dots 5,0 \mu\text{m}$
	$R_{max} \leq 6,3 \mu\text{m}$
<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>	$R_z = 10 \dots 16 \mu\text{m}$

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-Ø d1

<b>Simmerring Combi Seal SF5</b>	35 ... 120 mm
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