

# WEAR-RESISTANT 75 FKM 260466



Freudenberg Sealing Technologies has already set the industry standard with its fluoro-rubber compound solutions for oil seals in industrial applications. With 75 FKM 260466 we now offer a material innovation for industrial gearboxes.

**75 FKM 260466 is an especially wear-resistant material** made of fluoro rubber that has been specifically developed for use in synthetic oils, especially polyglycols. These lubricants have been increasingly used in drive technology units with a critical impact on seal wear band width, shaft grooving, and the service life expectancy of radial shaft seals.

**In addition, extending seal service life is also a consideration** in regard to the use of biodegradable lubricants (especially synthetic di- and polyolester) in applications for agriculture, forestry, mining, and marine propulsion. Developed with these requirements in mind, the high-performance 75 FKM 260466 material also surpasses the excellent lubricant compatibility and wear resistance of our 75 FKM 585 compound.

**In order to achieve a sealing lifetime** of more than 15,000 operating hours—required by many industrial gearbox manufacturers—it is necessary to perfectly balance the tribological system (shaft, lubricant, and seal). In comprehensive basic research and in collaboration with Klüber Lubrication (also a member of the Freudenberg Group), a new polymer structure has been developed which perfectly blends with synthetic gear oils. The result is high chemical resistance and significant wear reduction which dramatically extends the life of the seal.

**75 FKM 260466 is one of the reference materials** for the static and dynamic oil compatibility test for release in Siemens Flender gearboxes.

## VALUES FOR THE CUSTOMER

- More than 200 standard part numbers available from stock, from 15 mm to 240 mm shaft diameter, and supplied in either industrial or individual packaging.
- New or custom dimensions can be added upon customer request

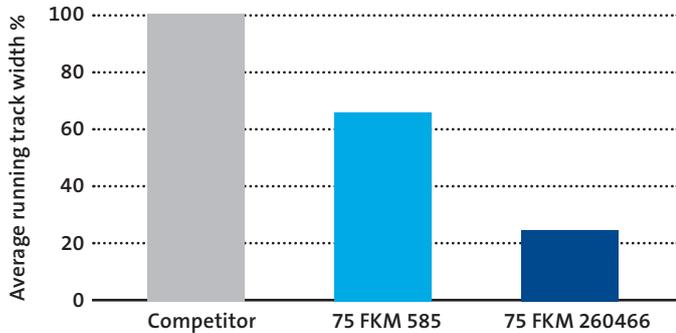
**Despite the marginally higher acquisition costs, Simmerring oil seals made of 75 FKM 260466 have significant advantages with respect to the total cost of ownership (TCO):**

- Reduced downtime and lower maintenance costs
- Extension of the service life expectancy by up to 80%
- Reduction wear band width by up to 70%
- Reduction of shaft wear grooving by up to 90%



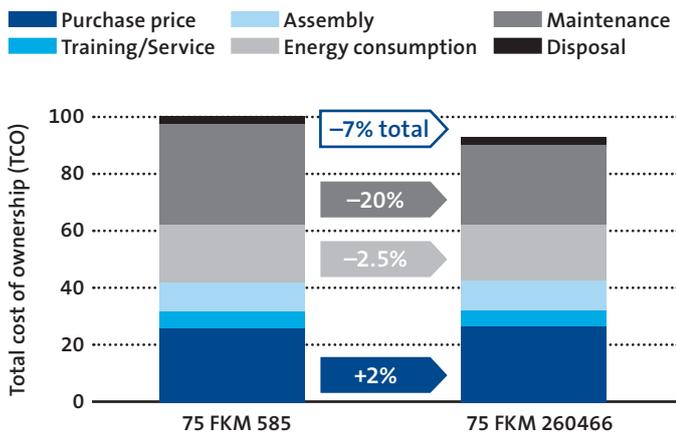
## FEATURES AND BENEFITS

Wear behavior of radial shaft seals made from different FKM compounds\*



\* Example applies to the use in polyglycol oil ISO VG 220

Cost of ownership (TCO)\* demonstrates a 7% lower total cost with 75 FKM 260466 compared to standard 75 FKM 585.



\* For an end-user's transmission

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