

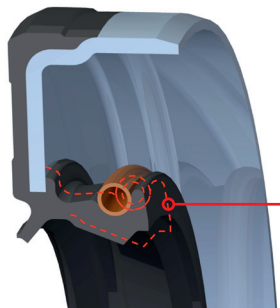


LOW FRICTION SIMMERRING®

Standard Simmerring

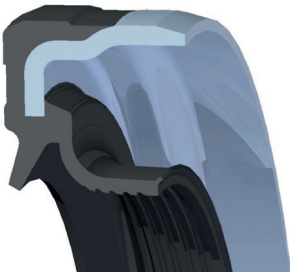


Low Friction Simmerrings (LFS)



Standard Simmerring profile compared

Energy Saving Simmerrings (ESS)



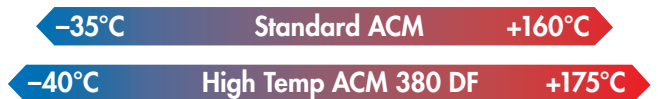
VALUES TO THE CUSTOMER

- ACM 380 DF: better relaxation characteristics and bigger temperature range (-40°C to 175°C) compared to classic ACM
- Lower friction compared to conventional sealing lip profile: 15 to 20%
- Lower price compared to FKM-seals due to special ACM for high temp
- Higher ability for high speed and high temp applications
- Less sensitivity during assembly compared to ESS

NEW HIGH TEMPERATURE ACM

Advantages of high temperature ACM 380 DF compound:

- Better relaxation characteristics and bigger temperature range (-40°C to +175°C)
- Excellent compatibility with the additives of the new generation of oils for gearboxes and axles
- Inline with the current environmental protection requirements such as EU regulations and REACH



LOW FRICTION SIMMERRING®



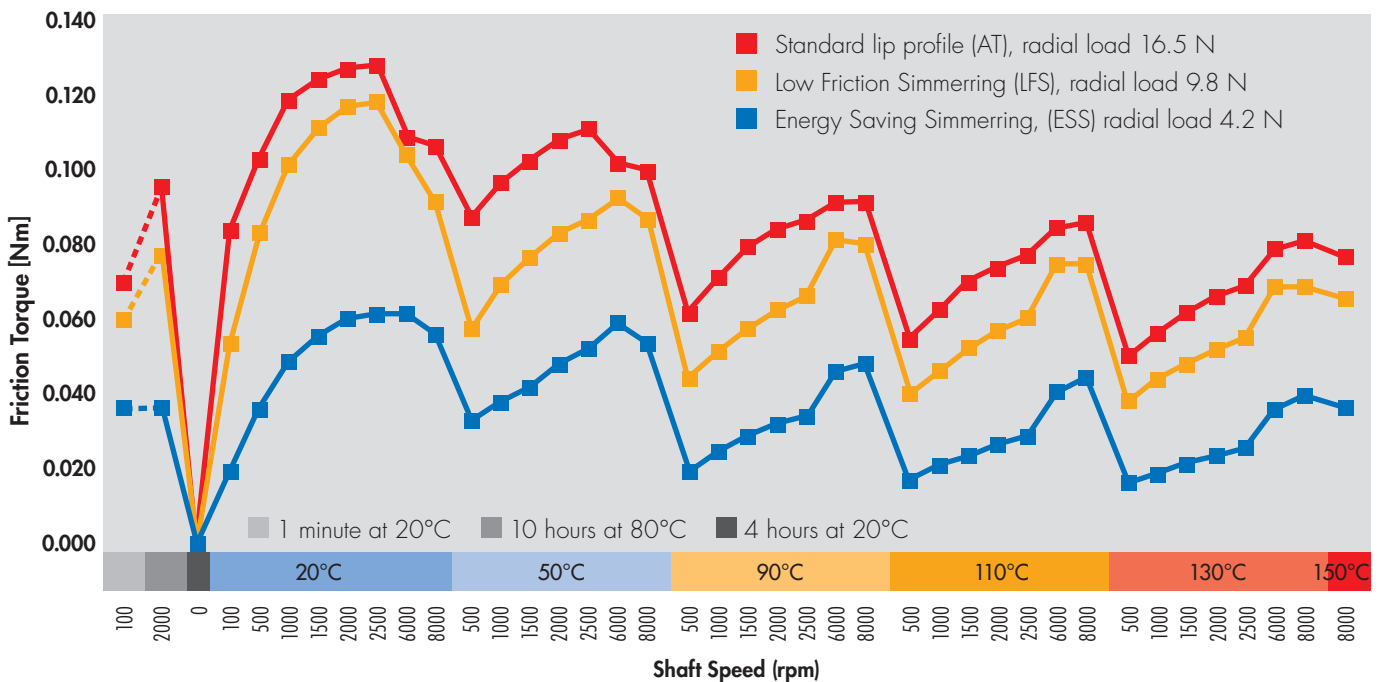
FEATURES AND BENEFITS

Comparative features of the Low Friction Simmerring and Energy Saving Simmerring versus the standard Simmerring

	Standard Simmerring	Low Friction Simmerring	Energy Saving Simmerring
Friction	good	very good	outperforming
High Speed/High Temp	good	very good	outperforming
Dirt	very good	very good	inferior
Assembly	outperforming	outperforming	outperforming in lip direction/inferior against lip direction
Air Leakage (end of line test)	outperforming	outperforming	inferior*

*Only for input seal with specified assembly line

The **Low Friction Simmerring** demonstrates 15-20% lower friction in comparison to the conventional sealing lip (AT vs LFS)



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