LOW FRICTION SIMMERRING® SHAFT SEALS

VALUES FOR 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

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Standard Simmerring shaft seal profile compared

Standard ACM: –35 °C to +160 °C
High Temp ACM 380 DF: –40 °C to +175 °C
FEATURES AND BENEFITS

Comparative features of the LFS and ESS versus the standard Simmerring® shaft seal

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard Simmerring shaft seal</th>
<th>LFS, Low Friction Seal</th>
<th>ESS, Energy Saving Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction</td>
<td>good</td>
<td>very good</td>
<td>outperforming</td>
</tr>
<tr>
<td>High Speed/High Temp</td>
<td>good</td>
<td>very good</td>
<td>outperforming</td>
</tr>
<tr>
<td>Dirt</td>
<td>very good</td>
<td>very good</td>
<td>inferior</td>
</tr>
<tr>
<td>Assembly</td>
<td>outperforming</td>
<td>outperforming</td>
<td>inferior*</td>
</tr>
<tr>
<td>Air Leakage (end of line test)</td>
<td>outperforming</td>
<td>outperforming</td>
<td>inferior*</td>
</tr>
</tbody>
</table>

*Only for input seal with specified assembly line

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

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