



# Speciality lubricants for bearings

Smooth operation with the right lubricants

// **KLÜBER**  
**LUBRICATION**  
your global specialist

All mechanical components require special lubricants. The lubricants used have to meet both the requirements specific to the individual components and those of their various fields of application. Our speciality lubricants are suited to all the individual requirements, which includes minimising friction and wear, extending intervals and thus considerably reduces costs.

## The element that rolls the bearing

Whether they are designed as ball or roller bearings, radial or thrust bearings, they have one thing in common - transmission of load and power via rolling elements located between bearing rings. A vital requirement for low-wear or even wear-free operation of rolling elements and the friction bodies is by means of a suitable lubricant.

Correct lubrication contributes to more reliable operation by providing enhanced bearing service lifetime. Klüber Lubrication has developed a wide range of high-quality special lubrication products that encompasses high-performance greases for extreme load conditions, food-grade lubricants for the food-processing industry and others.

Speciality lubricants can do a lot for your rolling bearings; they **extend bearing lifetime, increase the reliability of operation, lower the noise level, allow higher bearing running speeds** and make bearings **resistant to extreme conditions**.

The selection of the lubricant offering optimum protection depends to a high degree on the loads, speeds and temperatures your bearings have to cope with.

By selecting a lubricant specifically for your application, it can provide, among other things, low-wear operation under mixed-friction operating conditions, low friction torque at high speeds or improved start-up behaviour under stop-start conditions.

We have a close cooperation with OEMs and operators - lubricants from Klüber Lubrication are approved and recommended by many OEMs.



## Think about tomorrow today!

With low friction values and low-wear operation, high-performance lubricants contribute to energy saving reducing CO<sub>2</sub> emissions. Longer relubrication intervals or even lifetime lubrication can help to reduce lubricant consumption with reduced oil disposal effects decreasing the strain on natural resources with both maintenance and disposal costs reduced.

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Selecting the right lubrications for bearing applications

Operating condition	Products	Benefits and Values
<b>High temperature (up to 260 °C)</b>	BARRIERTA L 55 series	<ul style="list-style-type: none"> <li>– High operating temperatures up to 260 °C</li> <li>– Good long-term stability</li> <li>– Low evaporation rate</li> <li>– Excellent resistance to aggressive media</li> <li>– Good adhesion and sealing effect</li> <li>– NSF H1 registered and ISO 21469 certified</li> </ul>
	Klübertemp GR AR 555	<ul style="list-style-type: none"> <li>– High operating temperatures up to 250 °C</li> <li>– For applications exposed to aggressive media</li> <li>– Good corrosion protection</li> <li>– High evaporation stability</li> <li>– NSF H1 registered and ISO 21469 certified</li> </ul>
<b>High load</b>	Klüberlub BE 41-1501	<ul style="list-style-type: none"> <li>– Excellent wear protection</li> <li>– Good load-carrying capacity at low rotational speeds</li> <li>– Wide service temperature range</li> </ul>
	Klüberlub OG 11 series	<ul style="list-style-type: none"> <li>– Sustained performance adverse pressure and load conditions</li> <li>– Operationally reliable even at high temperature</li> <li>– Good protection from shock loads</li> </ul>
	Klüberfood NH1 94-402	<ul style="list-style-type: none"> <li>– Good load-carrying capacity</li> <li>– Longer maintenance intervals</li> <li>– Good corrosion protection</li> <li>– Good wear protection</li> <li>– NSF H1 registered and ISO 21469 certified</li> </ul>

Operating condition	Products	Benefits and Values
<b>High load</b>	Klüberfood NH1 11-572	<ul style="list-style-type: none"> <li>– Good load-carrying capacity</li> <li>– Longer maintenance intervals</li> <li>– Cost savings through reduced lubricant consumption</li> <li>– Good pumpability via centralised lubrication systems</li> <li>– NSF H1 registered and ISO 21469 certified</li> </ul>
<b>Contact with water, acid &amp; alkaline</b>	STABURAGS NBU series	<ul style="list-style-type: none"> <li>– Good corrosion protection</li> <li>– Good resistance to ambient media</li> <li>– Excellent wear protection</li> <li>– Good resistance to tribo-corrosion</li> <li>– Good load-carrying capacity</li> <li>– Good sealing effect</li> </ul>
<b>Centralised lubrication</b>	MICROLUBE GB 0 & 00	<ul style="list-style-type: none"> <li>– Universal high-performance lubricant</li> <li>– High pressure absorption capacity</li> <li>– Good wear protection</li> <li>– Good anticorrosion behaviour</li> <li>– No channelling in case of immersion lubrication</li> <li>– Pumpable through centralised systems</li> </ul>
	Klübersynth UH1 14-1600	<ul style="list-style-type: none"> <li>– Improved pumpability due to its soft consistency</li> <li>– Component life enhanced</li> <li>– Good adhesion and corrosion protection</li> <li>– NSF H1 registered and ISO 21469 certified</li> </ul>

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