

Klüberplex AG 11- 461 / 462

White operating and priming lubricants for open drives

Benefits for your application

- **Reduced maintenance needs**
 - o **low contamination of machine environment due to use of white solid lubricants and low lubricant consumption**
 - o **very good adhesion even at low temperatures**
 - o **product streamlining possible as the product is suitable for gear rim / pinion drives and bearings**
 - **Improved component performance**
 - o **less wear due to selected solid lubricants and additives**
 - o **very good corrosion protection also when exposed to saltwater**
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Description

Klüberplex AG 11-461 and 462 are spreadable adhesive lubricants based on mineral oil and an aluminium complex soap thickener, and contain white solid lubricants. Klüberplex AG 11-461 and 462 can withstand high loads with good corrosion protection properties.

Application

Klüberplex AG 11-461 and 462 are suitable as priming lubricants for large gear rim and pinion drives and serve as contrast lubricants for checking the drive's load pattern. Klüberplex AG 11-461 and 462 are also suitable for the effective lubrication and protection of offshore and wind-energy applications such as open gears, slow-running rolling bearings, sliding and guide rails and similar components subject to saltwater influence in the marine sector.

Application notes

Priming lubrication

Klüberplex AG 11-461 and 462 can be applied by brush or spatula, ideally onto clean surfaces. To determine the right quantity for your application, please see the diagram overleaf.

Operational lubrication

Klüberplex AG 11-461 and 462 can be applied by manually operated grease guns. Both products are applicable through central lubricating systems* and sprayable at temperatures down to 0°C. Adhesion is sufficient at temperatures as low as -40°C. Provided sufficient relubrication is ensured, short-term thermal loads of up to 200°C are permissible.**

The lubricant quantities to be used depend on the operating conditions and must be determined for each application individually.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

400	ml	spray can, Klüberplex AG 11-462
1	kg	can
5	kg	bucket
25	kg	bucket
0.45	kg	cartridge

* The products are in principle applicable through central lubricating systems. Please note, however, that the equipment manufacturer must confirm pumpability in each individual case due to different machinery configurations and application conditions. We will be pleased to assist you in this respect.



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Material safety data sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

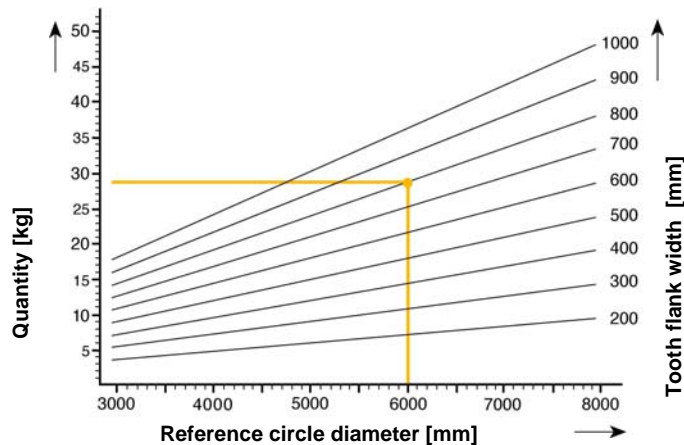
Product data	Klüberplex AG 11- 461	Klüberplex AG 11- 462
Colour	white	white
Texture	homogeneous	homogeneous
Density, at 20 °C, [g/cm ³], approx.	1.07	1.07
Drop point, DIN ISO 2176, [°C]	≥ 180	≥ 180
Consistency class, DIN 51818, NLGI	1	2
Solid lubricant content, [wt. %], approx.	20	20
Effectiveness of the lubricating film**, [°C]	-40	-40
Base oil viscosity ISO VG	460	460
Water resistance, DIN 51807-01, 3 h / 90 °C	0-90	0-90
FZG special test A/2,76/RT, based on DIN ISO 14635-3, scuffing load step	≥ 12	≥ 12

** The temperatures stated herein are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

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Determining quantity required for priming lubrication



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www.klueber.com

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

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