

Klüberalfa XP 83-500

Long-term, media-resistant fluid grease



Benefits for your application

- **Improved performance of components subject to extreme lubrication conditions, due to**
 - very good stability to aggressive chemicals
 - good compatibility with plastics and elastomers
 - NSF-H1 registration (complies with FDA 21 CFR § 178.3570)
- **Longer component life when exposed to high temperatures**
 - low evaporation rate
 - excellent thermal stability of raw materials

Description

Klüberalfa XP 83-500 is a media-resistant and thermally stable fluid grease based on perfluorinated polyether oil (PFPE) and PTFE.

Klüberalfa XP 83-500 exhibits lower evaporation rates than comparable lubricants of this viscosity grade, extending the lifetime of lubricated components.

Klüberalfa XP 83-500 is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of Klüberalfa XP 83-500 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

The certification according to NSF ISO 21469 supports the compliance with the hygienic requirements in your production. You will find further information about NSF ISO Standard 21469 on our website www.klueber.com.

Application

Klüberalfa XP 83-500 protects sliding surfaces subject to aggressive media or high temperatures against friction and wear. Typical examples being:

- ball valves in the chemical industry
- transport chains in the food-processing industry

- plastic components and seals

Compatibility with plastics and elastomers

Lubricating greases based on PFPE and PTFE are generally regarded as neutral towards elastomers and plastics (with the possible exception of perfluorinated rubber).

Nevertheless, compatibility with the materials should be tested, especially prior to series application.

Application notes

For optimum lubrication performance, we recommend cleaning the friction point. Use dry, compressed air or hot air to remove solvent residues.

The friction point has to be bright (i.e. free of oil, grease and perspiration) and free of contamination particles.

To optimize service life, please contact our technical sales staff.

Material safety data sheets

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

Pack sizes	Klüberalfa XP 83-500
Can 1 kg	+
Bucket 10 kg	+



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Product data	Klüberalfa XP 83-500
Article number	090132
NSF-H1 registration	137 745
Chemical composition, type of oil	PFPE
Chemical composition, solid lubricant	PTFE
Lower service temperature	-15 °C / 5 °F
Upper service temperature	260 °C / 500 °F
Colour space	white
Density at 20 °C	approx. 1.93 g/cm ³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 480 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 45 mm ² /s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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