

Klüberalfa YM 3-30

Lubricating oil for electric contacts and assembly



Benefits for your application

- Easy application of spray variants
- High resistance to ageing
- Resistance to most chemicals
- Neutrality to most plastics and elastomers
- Highly effective lubricating fluid
- Non-flammable

Description

Klüberalfa lubricants, based on perfluorinated polyether (PFPE), have been developed for specific lifetime lubrication requirements and have a number of characteristics that make them optimally suited for such tasks.

Klüberalfa YM 3-30 has been formulated for ease of application of a thin lubricant film on electrical contacts and plug-in connectors as well as elastomer and plastic parts. The lubricant is highly resistant to ageing and is suitable for use across a wide temperature range.

Klüberalfa YM 3-30 is not flammable and resistant to most aggressive chemicals.

Application

Klüberalfa YM 3-30 can be used for the lubrication of plug-in and sliding contacts as well as for plastic parts.

When properly applied, Klüberalfa YM 3-30 provided in a spray can

- provides an even, thin and extensive lubricant film
- allows simple and clean application
- is extremely economical in use

does not require permanently installed dispensing equipment.

General behaviour towards plastics and elastomers

Perfluorinated polyether oils are neutral to most elastomers and plastic materials (possible exception: fluorinated rubber).

Thanks to this neutrality, Klüberalfa YM 3-30 Spray is also suitable for use as an assembly aid in plastic-plastic material combinations.

Nevertheless, compatibility of the lubricant with the materials in contact should be verified, especially prior to series application.

Application notes

For optimum results, we recommend cleaning all friction points with white spirit 180/210 and then with Klüberalfa XZ 3-1 prior to initial lubrication. Subsequently, the friction points should be dried with clean, dry compressed air or hot air to remove all solvent residues.

The friction points must be free from oil, grease, perspiration and contamination particles before initial lubrication.

If the spray variant is used: Do not spray towards naked flames, incandescent or hot objects. Observe additional application notes outlined in the material safety data sheet or on the product container. Protect spray can against sunlight and temperatures above 50 °C.

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 YM 3- 30	Klüberalfa YM 3- 30 Spray
Canister 10 l	+	-
Aerosol can 250 ml	-	+



Klüberalfa YM 3-30

Lubricating oil for electric contacts and assembly

Product data	Klüberalfa YM 3- 30	Klüberalfa YM 3- 30 Spray
Article number	090086	081281
NSF-H1 registration	141 694	
Chemical composition, type of oil	PFPE	PFPE
Chemical composition, propellant		propane-butane
Lower service temperature	-60 °C / -76 °F	-45 °C / -49 °F
Upper service temperature	100 °C / 212 °F	100 °C / 212 °F
Colour space	colourless	colourless
Appearance	clear	clear
Density, DIN 51757, 20 °C	approx. 1.89 g/cm ³	approx. 1.9 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 25 mm ² /s	approx. 28 mm ² /s
Pour point, DIN ISO 3016	<= -60 °C	
Vapour pressure at 20 °C	approx. 1 x 10 ⁻⁵ Torr	
Specific resistance at 25 °C		approx. 1 x 10 ¹³ Ohm cm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	36 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.

Klüber Lubrication München SE & Co. KG / Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0 / fax +49 89 7876-333.

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.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.