

Klüberalfa MR 3, MR 3-500, MR 3-800

Universal sliding fluid for seals, guideways and plastic friction points



Your benefits at a glance

- Reduced noise and optimised friction
- Can be combined with numerous material combinations
- Easy and reliable application

Your requirements - our solution

Car manufacturers are confronted with the need to prevent creaking noises (NVH requirements), in particular when a new vehicle model is being launched.

The sliding fluids Klüberalfa MR 3 based on PFPE are resistant to evaporation and were specifically developed for NVH requirements and lifetime lubrication. They offer a less expensive alternative to other noise-reducing products such as films or adhesive tapes.

Klüberalfa MR 3 products are highly compatible with most elastomers and plastics. Due to their being visually neutral, they can be used for applications in car interiors as well as in other industrial sectors.

Klüberalfa MR 3 is available in three different viscosities and supplied in a pump spray dispenser that does not release greenhouse gases.

It is easy to use in economically small quantities and does not give off combustible or flammable solvent vapours. The product forms a homogeneous lubricating film.

Application

Due to its good compatibility, Klüberalfa MR 3 may be used in combination with most materials, e.g. leather, textile or plastic, in car interiors or on the car body.

Note on technical data

The following technical data refer to the solvent-free active agent Klüberalfa MR 3, Klüberalfa MR3-500 and Klüberalfa MR 3-800.

Pack sizes	Klüberalfa MR 3	Klüberalfa MR 3-500	Klüberalfa MR 3-800
Canister 500 ml	+	+	+
Canister 10 l	+	+	+

Klüberalfa MR 3 is compatible with most thermoplastics or thermosetting plastics used, for example, in dashboards, seat and sunroof sliding rails, arm rests, seat adjustment mechanisms, door and sunroof seals.

Perfluorinated polyether oils are generally regarded as neutral towards elastomers and plastics (possible exception: highly fluorinated rubber). Nevertheless we recommend testing compatibility with the material to be used, especially prior to series application.

Application notes

For optimum lubrication results, we recommend cleaning the friction points with white spirit 180/210 followed by Klüberalfa XZ 3-1 before using Klüberalfa MR 3 for the first time. Then blow the surfaces with clean, dry compressed air or hot air to remove white spirit residues.

For initial lubrication, the friction points must be clean and bright, i.e. free from oil, grease, perspiration and contamination.

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.

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Characteristics	Klüberalfa MR 3	Klüberalfa MR 3-500	Klüberalfa MR 3-800
Article number	090118	090195	090194
Composition, solvent	fluorinated solvent	fluorinated solvent	fluorinated solvent
Composition, type of oil	PFPE	PFPE	PFPE
Appearance	clear	clear	clear
Service temperature, upper limit	180 °C	200 °C	250 °C
Density, Klüber method: PN 024, 20°C	approx. 1.53 g/cm ³	approx. 1.55 g/cm ³	approx. 1.61 g/cm ³
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 9 mm ² /s	approx. 38 mm ² /s	approx. 80 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 95 mm ² /s	approx. 395 mm ² /s	approx. 800 mm ² /s
Pour point, DIN ISO 3016	≤ -45 °C	≤ -30 °C	
Pour point of the base oil, DIN ISO 3016			≤ -15 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	24 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 90 years.

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