

Klüberalfa XZ 3-1

Dispersant and solvent



Your benefits at a glance

- Optimally conditions metal surfaces for improved adhesion of PFPE lubricants
 - Facilitates removal of PFPE lubricants
 - Enables minimum-quantity application of PFPE lubricants in dispersed form
- **Contributes to the achievement of your sustainability goals:**
 - Reduced impact on environment due to significantly lower GWP (Global Warming Potential*) than that of comparable fluorine-based solvents

Your requirements - our solution

You wish to apply your PFPE lubricant in thin layers or prepare your components for the application of PFPE lubricants, or remove fluorine-containing lubricant residues.

Klüberalfa XZ 3-1 is a rapidly evaporating dispersant and solvent for PFPE-based lubricants.

You can also use Klüberalfa XZ 3-1 to prepare your components for the application of PFPE lubricants or facilitate the removal of unwanted fluorine-containing lubricant residues.

Besides making your work easier, Klüberalfa XZ 3-1 helps you save both resources and money due to minimum-quantity lubrication.

Application

Klüberalfa XZ 3-1 may be used to clean friction points prior to the application of PFPE products such as BARRIERTA L55/2. When used on clean surfaces, both the adhesion and the performance of such lubricants are significantly improved. To attain optimum lubrication results, we recommend cleaning the friction point prior to initial application first with white spirit 180/210 and then with Klüberalfa XZ 3-1. Prior to initial lubrication, the friction point should be bright (i.e. free of any residues) and free of dirt particles.

As a dispersant: PFPE greases dispersed with Klüberalfa XZ 3-1 are used for minimum-quantity lubrication of rolling bearings, chains, small gears, seals and many other components. With Klüberalfa XZ 3-1, the active substance content in dispersions of the Klüberalfa product family can be adjusted to individual needs without difficulty. Due to its high dispersive capacity, Klüberalfa XZ 3-1 is used as a flushing fluid to remove used PFPE grease from components that

are difficult to clean. The cleaned surfaces remain free of grease and bright.

Application notes

To prevent evaporation losses of the product, the container should be tightly closed after use.

Behaviour towards elastomers and plastics

When in contact with Klüberalfa XZ 3-1 for a relatively short time, elastomers or plastics are in general not expected to suffer damage. Nevertheless we recommend testing compatibility with the material to be used, especially prior to series application.

*GWP Explanation

A fundamental indicator of climate protection characteristics is a product's CO₂ balance. The global warming potential (GWP) or CO₂-equivalent of a chemical compound is a measure of its relative contribution to Greenhouse effect. GWP indicates the degree of heat absorption of a greenhouse gas compared with the same mass of CO₂ and hence its contribution to global warming.

Besides CO₂ and methane, greenhouse gases include also gaseous fluorocarbons and fluorine compounds.

By selecting the right fluorine-containing solvent, you can reduce the impact on global warming and become more efficient in the pursuit of your sustainability goals.

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.

Klüberalfa XZ 3-1

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Pack sizes	Klüberalfa XZ 3-1
Canister 1 l	+
Canister 10 l	+
Characteristics	Klüberalfa XZ 3-1
Article number	810033
Composition, solvent	hydrofluoroether
Colour space	colourless
Texture	liquid
Boiling point of the solvent, lower limit	56 °C
Boiling point of the solvent, upper limit	62 °C
Density, DIN 51757, 20°C	approx. 1.53 g/cm ³
Evaporation time, equipment: surface 70 cm ² / 3.0 g, room temperature	6 min
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 90 years.

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