

# Klüberplus S 03-105

Water-miscible PTFE dispersion



## Benefits for your application

- Dries rapidly in air – no burning-in required
- Very low friction coefficient
- Prevents stick slip
- Quick quality inspection of the coating after application by integrated UV indicator (visible at 300 - 400 nm)

## Description

Klüberplus S 03-105 is a white, air-drying PTFE dispersion in an organic binding agent. Once applied and dried, the dispersion provides good wear resistance, has a low friction coefficient, and ensures smooth operation at low speeds. The dispersion dries very quickly in spite of the water contained in the solvent. Adhesion on iron, non-ferrous metals, plastic materials (e.g. ABS, PC, PVC, PU, PA, PS), and elastomers (e.g. NBR, FKM, SBR, EPDM) is good.

## Application

Klüberplus S 03-105 reduces friction and wear in metal/metal, metal/ plastic and plastic/plastic friction components. It is also suitable as a release agent when casting tin hinges, and to lubricate slide rails, threads, bolts and bushings. Klüberplus S 03-105 can also be used as an assembly aid for plastic and elastomer components.

## Application notes

Klüberplus S 03-105 is a ready-to-use product. Shake or stir well before use. The product then has to be filtered, e.g. using a nylon filter with a mesh size of 150 µm.

The dispersion can be applied by spraying, immersion, or by brush. Information on other application methods is available on request. The surfaces to be coated must be cleaned/degreased and be completely free from oil, grease, water, corrosion, and scale. If required, Klüberplus S 03-105 can be diluted with deionized water or tap water up to a hardness of 10 °dH. In this context it is important to keep in mind that the product's lubricity and wetting capacity decrease as the water content increases. Protect product from frost and direct heat.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberplus S 03-105
Can 1 l	+
Bucket 15 l	+

Product data	Klüberplus S 03-105
Article number	099155
Colour space	white
Texture	liquid
Lower service temperature	-40 °C / -40 °F
Upper service temperature	180 °C / 356 °F
Density, DIN EN ISO 2811, at 20 °C	approx. 1.08 g/cm <sup>3</sup>
Drying time, at approx. 20 °C, dry to the touch	approx. 15 min
Drying time, at approx. 20 °C, completely hardened	approx. 24 h
Runout time, DIN EN ISO 2431, with flow cups, nozzle 4 mm	approx. 27 s



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Product data	Klüberplus S 03-105
Stick-slip, Tannert sliding indicator, room temperature, $v_{max} = 0.243$ mm/s, $F = 100$ N, evaluation	no stick slip
Friction coefficient, Tannert sliding indicator, room temperature, $v_{max} = 0.243$ mm/s, $F = 100$ N	0.05
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	18 months

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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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