

# Klübertemp GR UT 18

High-temperature multi-purpose grease



## Benefits for your application

- Multiple uses over a wide operating temperature range
- Good resistance to aggressive media
- High thermal stability
- Neutral towards plastic materials

## Description

Klübertemp GR UT 18 is a white, odourless high-temperature multipurpose grease based on a perfluorinated polyether (PFPE) oil and a polytetrafluoroethylene (PTFE) thickener. The base oil viscosity enables a wide variety of applications to be served over a wide operating temperature range (peak temperature 250 °C).

Klübertemp GR UT 18 shows a neutral behaviour towards most plastics and elastomers and can therefore be used for a variety of component materials.

## Application

Klübertemp GR UT 18 is used in numerous sectors of industry and a wide variety of components in high- and low-temperature applications requiring medium base oil viscosity.

### Behaviour towards elastomers and plastics

Lubricants based on perfluorinated polyether oils and polytetrafluoroethylene are generally regarded as neutral towards most elastomers and plastics (exception: perfluorinated 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. Then blow the surfaces with clean, dry compressed air or hot air to remove solvent residues. For initial lubrication, the friction points must be clean and bright, i.e. free from oil, grease and perspiration). Klübertemp GR UT 18 is applied directly or by means of brush, spatula or lubricant dispenser. The technical sales departments at Klüber Lubrication may be contacted at any time for advice to ensure optimum service life results.

## 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	Klübertemp® GR UT 18
Tube 100 g	+
Can 1 kg	+
Bucket 10 kg	+

Product data	Klübertemp® GR UT 18
Article number	090180
NLGI grade, DIN 51818	2
Chemical composition, type of oil	PFPE
Chemical composition, solid lubricant	PTFE
Lower service temperature	-30 °C / -22 °F



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Product data	Klübertemp® GR UT 18
Upper service temperature	230 °C / 446 °F
Colour space	white
Texture	homogeneous
Density at 20 °C	approx. 1.99 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 145 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 16 mm <sup>2</sup> /s
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 9 % by weight
Evaporation loss, ASTM D 2595 22H/149°C	<= 3 % by weight
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.

**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.

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