

Klübertemp GR AR 555

Multi-purpose lubricant for high-temperature applications



Benefits for your application

- For use at high operating temperatures up to 250 °C
- For applications exposed to aggressive media

Description

Klübertemp GR AR 555 is a white, homogeneous long-term grease based on a perfluorinated polyether oil (PFPE) and polytetrafluoroethylene (PTFE).

Klübertemp GR AR 555 offers good corrosion protection and high evaporation stability especially for high-temperature applications.

Application

Klübertemp GR AR 555 is used in numerous sectors of industry and a wide variety of components operating at high temperatures.

Application examples:

- Corrugated roll bearings in corrugators
- Seals
- Conveyors
- Clean room equipment and semiconductor technology
- Vacuum applications

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, perspiration and contamination. Klübertemp GR AR 555 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. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübertemp GR AR 555
Tube 100 g	+
Can 1 kg	+
Cartridge 800 g	+

Product data	Klübertemp GR AR 555
Article number	090178
NSF-H1 registration	149 306
NLGI grade, DIN 51818	2
Chemical composition, type of oil	PFPE
Chemical composition, solid lubricant	PTFE



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Product data	Klübertemp GR AR 555
Lower service temperature	-30 °C / -22 °F
Upper service temperature	250 °C / 482 °F
Colour space	white
Texture	homogeneous
Density at 20 °C	approx. 1.90 g/cm ³
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. 420 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 39 mm ² /s
Oil separation, based on ASTM D 6184 [FTMS 791 C 321], after 30 h/200 °C	<= 12 % by weight
Evaporation loss, ASTM D 2595 22h/204°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.

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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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