

Klübertemp GR AR 555

Multi-purpose lubricant for high-temperature applications



Your benefits at a glance

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

Your requirements - our solution

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.

MOSH-MOAH Hint

The chromatographic measurement of MOSH can also detect saturated hydrocarbons of form other sources than mineral oil so it may be possible for chromatographic MOSH peaks to be detected in some Klüber Lubrication H1 products.

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.

This product is also available in our automatic lubricant dispenser Klübermatic. Please consult the application engineering experts from Klüber Lubrication to determine whether Klübermatic might be used under the conditions in your processes.

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.

Characteristics	Klübertemp GR AR 555
Article number	090178
Composition, solid lubricant	PTFE
Composition, type of oil	PFPE

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Characteristics	Klübertemp GR AR 555
Mineral Oils associated with MOSH (Mineral Oil Saturated Hydrocarbons) / MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Not intentionally added
Colour space	white
Texture	homogeneous
Service temperature, lower limit	-30 °C
Service temperature, upper limit	250 °C
NSF H1 registration number	149306
Density, Klüber method: PN 024, 20°C	approx. 1.9 g/cm ³
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 39 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 420 mm ² /s
Oil separation, ASTM D6184, based on standard, 30 h, 200°C	≤ 12 % by weight
Evaporation loss, ASTM D2595, 22 h, 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 95 years.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

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