

Klübersynth M 115-01, M 115-04

Synthetic special greases for ball joints in suspension components



Benefits for your application

- **Specialty greases tried and tested in series application**
 - positive experience with applications minimizes risk
- **Low breakaway and motion torques even after 24 hours of standstill**
 - smooth motion right from the start
- **High corrosion protection also under influence of artificial seawater**
 - no increase in surface roughness and wear
- **Reduction of stick-slip in the joints**
 - constant motion when operated by hand or power-controlled drive
- **Approvals by car manufacturers and suppliers**
 - less testing required

Description

Klübersynth M 115-01 and Klübersynth M 115-04 consist of fully synthetic base oils that are mixed with a lithium soap thickener using a special technique. These greases contain substances that increase their resistance to ageing and offer excellent corrosion protection on steel surfaces. Special additives and manufacturing methods increase the product's adhesion on steel and plastic surfaces, improve the dampening effect between the friction bodies and reduce breakaway and motion torques in ball joints. These greases were developed with a particular focus on the reduction of stick-slip.

Klübersynth M 115-01 has been optimized in terms of low motion and breakaway torques at ambient temperature and at 80 °C, while Klübersynth M 115-04 aims primarily at a stable service temperature range and problem-free function at low temperatures.

Compatibility with elastomers:

Interaction between Klübersynth M 115-01 and Klübersynth M 115-04 and commonly used sealing materials such as chlorobutadiene rubber (CR) are within the narrow limits specified by the automotive industry and its suppliers. Still compatibility with the elastomers and plastics to be used should be tested prior to series application.

Application

For lifetime-lubricated, sealed ball bearings as are used in stabilizers, tie rods, transverse links and wheel joints in motor vehicles. It has been tested in steel/polyoxymethyl material pairings, e.g. Ultraform S 2320, under oscillating tilting and angular swing motion coinciding with high-frequency vibrations. Klübersynth M 115-01 and Klübersynth M 115-04 were developed and tested according to specifications by renowned automobile manufacturers.

Application notes

Klübersynth M 115-01 and Klübersynth M 115-04 can be applied to the friction point by brush, spatula, metering gun, automatic metering systems and central lubrication systems.

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	Klübersynth M 115-01	Klübersynth M 115-04
Can 1 kg	+	+
Drum 170 kg	+	+



Klübersynth M 115-01, M 115-04

Synthetic special greases for ball joints in suspension components

Product data	Klübersynth M 115-01	Klübersynth M 115-04
Article number	094079	094085
Lower service temperature	-35 °C / -31 °F	-40 °C / -40 °F
Upper service temperature	120 °C / 248 °F	130 °C / 266 °F
Colour space	beige	beige
Density at 20 °C	approx. 0.90 g/cm ³	approx. 0.90 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 720 mm ² /s	approx. 345 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 56 mm ² /s	approx. 34 mm ² /s
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -35 °C	<= 2 000 mbar	<= 2 000 mbar
Drop point, DIN ISO 2176, IP 396	>= 185 °C	>= 185 °C
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 months	24 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.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.