

# Klübersynth RA 44-702, RA 44-3502

for noise reduction and mechanical damping



## Benefits for your application

- **Soft feel effect (haptics)**
- **Noise reduction**
- **Good compatibility with plastics**
- **Low oil separation**
- **After cathodic electro-immersion painting the greases can be used in drying ovens up to 180 °C for a short time**

## Description

Klübersynth RA 44-702 and RA 44-3502 are fully synthetic damping greases of high viscosity. They are free of raw materials containing silicone.

reason, comprehensive tests were performed according to DIN EN ISO 22088 (stress cracking). The results show that these greases are neutral to most plastic materials. Owing to the many different plastic compositions, we recommend checking the material's compatibility with the grease prior to series application.

## Application

Klübersynth RA 44-702 and RA 44-3502 mechanically dampen and reduce noise of slowly moving parts. These greases are preferably used for plastic/plastic and plastic/metal material pairings. Klübersynth RA 44-702 and RA 44-3502 can be used to set a defined resistant force and compensate for tolerances.

## Application notes

These products can be applied by means of grease gun, brush or spatula as well as via automatic lubricating systems. They contain a UV indicator for easy quality inspection of minimum quantity lubrication.

### Applications in motor cars:

mechanical switches and rotary controls, ventilation flaps, sun visors, ashtrays, cup holders, storage boxes, window lifter guide rails, armrest and seat adjustment mechanisms (vertical and horizontal), sunroofs, etc.

## Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

### Further applications:

precision engineering and optical instruments, fasteners, household appliances and white goods, office machinery and computers, pneumatics and O-rings, sports equipment.

## Material safety data sheets

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

### Compatibility with elastomers:

Klübersynth RA 44-702 and RA 44-3502 were especially developed for the lubrication of plastic parts inside cars. For this

Pack sizes	Klübersynth RA 44-3502	Klübersynth RA 44-702
Cartridge 400 g	+	+
Can 1 kg	+	+
Bucket 25 kg	+	+

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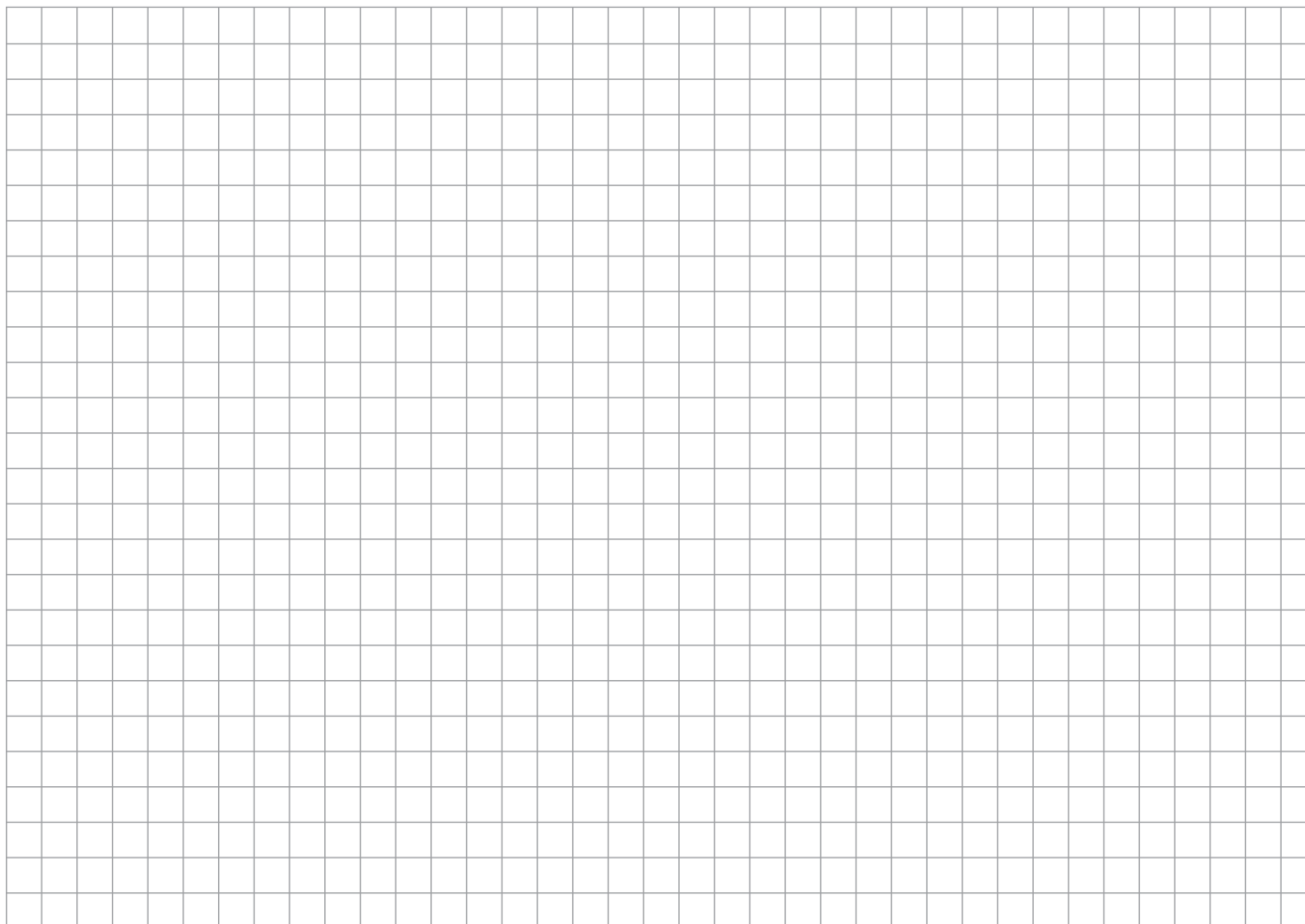
Product data	Klübersynth RA 44-3502	Klübersynth RA 44-702
Article number	012262	012264
Lower service temperature	-40 °C / -40 °F	-50 °C / -58 °F
Upper service temperature	130 °C / 266 °F	130 °C / 266 °F
Low-temperature torque, IP 186, -40 °C, running	approx. 290 mNm	approx. 140 mNm
Low-temperature torque, IP 186, -40 °C, start	approx. 510 mNm	approx. 150 mNm
Worked penetration, acc. to Klein, 25 °C, lower limit value	275 0,1 mm	265 0,1 mm
Worked penetration, acc. to Klein, 25 °C, upper limit value	305 0,1 mm	295 0,1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 3 500 mm <sup>2</sup> /s	approx. 720 mm <sup>2</sup> /s
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	23 000 mPas	12 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	16 000 mPas	6 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree	<= 1 corrosion degree
Drop point, DIN ISO 2176	>= 180 °C	>= 180 °C
Colour space	beige	beige
Chemical composition, thickener	lithium soap	lithium soap
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Density at 20 °C	approx. 0.88 g/cm <sup>3</sup>	approx. 0.87 g/cm <sup>3</sup>
Flow pressure of lubricating greases, DIN 51805, test temperature: -50 °C		<= 1 400 mbar
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar	
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 3 % by weight	<= 3 % by weight





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## 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 KG /  
Geisenhausenerstraße 7 / 81379 München / Germany /  
phone +49 89 7876-0 / fax +49 89 7876-333.**

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