

# Klüberbeta RM 47-102

Speciality lubricant for elastomers, duroplastics and thermoplastics



## Benefits for your application

- Low emissions and fogging values in vehicle passenger compartments
- Good low-temperature behaviour and wide service temperature range
- Compatible with a wide range of elastomers and plastics
- Good wetting of functional surfaces

## Description

Klüberbeta RM 47-102 is based on silicone oil and a lithium special soap. It ensures smooth running across a wide temperature range from -40 °C to +180 °C and is extremely compatible with many elastomers, duroplastic and thermoplastic materials.

## Application

Klüberbeta RM 47-102 is particularly suitable for lubrication of the following material combinations:

plastic/plastic, elastomer/plastic, plastic/metal.

Application examples for Klüberbeta RM 47-102 are:

- air conditioning ventilation valves
- automotive gear shift gates and linkages
- elastomer seals (including EPDM types)

Klüberbeta RM 47-102 enables lifetime lubrication whilst preventing annoying creaking or squeaking noises in mechanical components. It also assures "low fogging" and emission values, e.g. in air conditioning systems in car interiors.

## Application notes

The lubricant can be applied by spatula, brush or grease gun. With regard to the many different compositions of elastomers and plastics, we recommend checking compatibility prior to series application. To ensure optimum adhesion, it is advisable to clean the friction points prior to initial application of the lubricant.

## 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	Klüberbeta RM 47-102
Bucket 25 kg	+

Product data	Klüberbeta RM 47-102
Article number	022223
Lower service temperature	-50 °C / -58 °F
Upper service temperature	180 °C / 356 °F
Colour space	white
Density at 20 °C	approx. 0.96 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
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	2 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, upper limit value	8 000 mPas



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Product data	Klüberbeta RM 47-102
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 3 % by weight
Drop point, DIN ISO 2176	>= 220 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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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