

# Klüberlub LM 41-32 N, LM 41-102

Low-temperature greases for slides and small gears



## Benefits for your application

- Good low-temperature properties
- Self-locking effect in worm gears
- Good corrosion protection
- Pumpable through centralized lubrication equipment

## Description

Klüberlub LM 41-32 N and Klüberlub LM 41-102 are special greases based on mineral oil and a lithium soap thickener. Due to their low base oil viscosity Klüberlub LM 41-32 N and Klüberlub LM 41-102 are suitable for temperatures down to – 40°C.

## Application

Klüberlub LM 41-32 N and Klüberlub LM 41-102 have been designed especially for worm gears where a "self-locking" effect is desired. On the Tannert sliding friction test rig Klüberlub EM 41-102 shows a higher self-locking effect due to its higher base oil viscosity. Test results obtained with steel/POM material combinations can be requested at the Klüber Business Unit Automotive Engineering.

Klüberlub LM 41-32 N and Klüberlub LM 41-102 are used for small gears in the automotive industry, e.g. in window lifters, sun roof and seat adjustment or for slides, lumbar adjustment, steering columns and central locking mechanisms. Both greases are suitable for steel/plastic material combinations.

## Application notes

Klüberlub LM 41-32 N and Klüberlub LM 41-102 can be applied by brush, spatula, conventional metering systems or via centralized lubrication equipment.

## 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	Klüberlub LM 41- 32 N	Klüberlub LM 41-102
Can 1 kg	+	+
Bucket 5 kg	+	-
Bucket 25 kg	+	-
Drum 180 kg	+	-

Product data	Klüberlub LM 41- 32 N	Klüberlub LM 41-102
Article number	020186	020298
Lower service temperature	-40 °C / -40 °F	-40 °C / -40 °F
Upper service temperature	120 °C / 248 °F	120 °C / 248 °F
Colour space	beige	beige
Appearance	almost transparent	almost transparent
Texture	homogeneous	homogeneous
Texture	short-fibred	short-fibred
Density at 20 °C	approx. 0.90 g/cm <sup>3</sup>	approx. 0.90 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	270 x 0.1 mm	270 x 0.1 mm



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Product data	Klüberlub LM 41- 32 N	Klüberlub LM 41-102
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	300 x 0.1 mm	300 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 30 mm <sup>2</sup> /s	approx. 100 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4.5 mm <sup>2</sup> /s	approx. 9 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree	1 - 100 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 170 °C	> 170 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 600 mbar	<= 1 600 mbar
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 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.

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