

# ISOFLEX SUPER LDS 18

High-speed and smooth-running grease



## Benefits for your application

- Low running torque enables energy savings, particularly at low temperatures
- Smooth-running grease for high performance
- Long service life due to good corrosion protection as well as ageing and oxidation stability, hence cost savings possible
- Low heating-up of bearings due to low lubricant friction leading to longer service lives

## Description

ISOFLEX SUPER LDS 18 is a low-noise, high-speed grease for plain and rolling bearings. It consists of ester oil, mineral oil and lithium soap. It protects against corrosion and is resistant to ageing and oxidation.

## Application

ISOFLEX SUPER LDS 18 is suitable for plain and rolling bearings, small, miniature and precision bearings, for precision mechanical and optical equipment and low-temperature applications.

It can also be used as an anti-corrosion and anti-wear lubricant in electrical contacts.

Properly applied, ISOFLEX SUPER LDS 18 protects against corrosion and oxidation, improves sliding properties and reduces wear, e.g. in sliding contacts and potentiometers.

## Application notes

The lubricant is applied by brush, spatula, or grease gun. Owing to the different compositions of elastomers and plastic materials, compatibility tests are indispensable before series application.

## 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	ISOFLEX SUPER LDS 18
Tube 45 g	+
Cartridge 370 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	ISOFLEX SUPER LDS 18
Article number	004024
Chemical composition, type of oil	mineral oil
Chemical composition, type of oil	ester oil
Chemical composition, thickener	lithium soap
Lower service temperature	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F
Colour space	yellow
Texture	short-fibred



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Product data	ISOFLEX SUPER LDS 18
Texture	homogeneous
Density at 20 °C	approx. 0.90 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
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 15.5 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 3.5 mm <sup>2</sup> /s
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	3 400 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	0 corrosion degree
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -50 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 190 °C
Speed factor (n x dm)	1 000 000 mm/min
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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