

ISOFLEX® LDS 18 SPECIAL A

Dynamically light, long-term lubricating grease

Benefits for your application

- Long service life due to good corrosion protection as well as ageing and oxidation stability, hence cost savings
 - Tried-and-tested for many years, especially at high speeds and low temperatures
 - Low heating-up of bearings due to low lubricant friction leading to longer service lives
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Description

ISOFLEX® LDS 18 SPECIAL A is a dynamically light long-term grease for plain and rolling bearings. It consists of ester oil, mineral oil and lithium soap. The product is resistant to ageing, oxidation and water, and it protects reliably against corrosion.

Application

ISOFLEX® LDS 18 SPECIAL A is suitable for plain and rolling bearings operating at low temperatures and/or high speeds, for example in grinding spindles, machine tool spindles, spindle bearings, textile spindles, bearings in OE-spinning turbines, bearings in precision and optical equipment.

Application notes

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

Minimum shelf life

The minimum shelf life is approximately 36 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

- 45 g tubes
- 400 g cartridges
- 1 kg cans
- 25 kg buckets
- 180 kg drum

Material Safety Data Sheets

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



Product information

ISOFLEX® LDS 18 SPECIAL A

Dynamically light, long-term lubricating grease



Product data	ISOFLEX® LDS 18 SPECIAL A
Oil type / thickener	mineral oil, ester oil / lithium soap
Service temperature range*, [°C] approx.	- 50 to 120
Colour	yellow
Texture	homogeneous, short-fibred
Density at 20 °C, [g/cm³] approx.	0.88
Worked penetration, DIN ISO 2137, at 25 °C, [0.1 mm]	265 - 295
Apparent dynamic viscosity, viscosity grade***	L
Base oil viscosity, DIN 51562 pt. 01 at 40 °C, [mm²/s], approx. at 100 °C, [mm²/s], approx.	15 3.5
Corrosion protection of lubricating greases, DIN 51802, (SKF-EMCOR), 1 week, distilled water, corrosion rating	0
Low-temperature torque, IP 186 at 60 °C, starting torque, [mNm] at -60 °C, running torque, [mNm]	≤ 1,000 ≤ 100
Drop point, DIN ISO 2176, [°C]	≥ 190
Speed factor** (n x d _m), [mm/min], approx.	1 000 000

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

*** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

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