

ISOFLEX® LDS 18 SPECIAL A

Dynamically light lubricating grease for plain and rolling bearings



Description:

ISOFLEX LDS 18 SPECIAL A is a dynamically light long-term and low-noise 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. Based on the CEC-L-33-A-93 test, biodegradability after 21 days is > 70%.

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, low-noise 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 approx. 36 months if the product is stored in the original closed container in a dry place.

Pack sizes:

45 g PE tube
400 g cartridge
1 kg can
25 kg bucket

ISOFLEX LDS 18 SPECIAL A

- Dynamically light lubricating grease
- For high speeds
- Low-noise grease for rolling bearings
- Good corrosion protection
- Resistant to oxidation and ageing
- Biodegradability acc. to CEC-L-33-A-93 > 70% by weight

Product data:

Colour	yellow
Texture	homogeneous, short-fibred
Service temperature range*, °C, approx.	- 50 to 120
Density, DIN 51 757, at 20 °C, g/cm ³ , approx.	0.88
Drop point, DIN ISO 2176, °C	> 190
Worked penetration, DIN ISO 2137, (ASTM D 217); 0.1 mm	265 to 295
Corrosion protection (Emcor test), DIN 51 802, 1 week, distilled water, corrosion rating	0/1
Base oil viscosity, DIN 51 562/1, at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	15 4
Speed factor** (n x d _m), mm x min ⁻¹ , approx.	1,000,000
Apparent dynamic viscosity, Klüber viscosity grade***	L

* 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

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication, a member of the Freudenberg group

Publisher and Copyright:
Klüber Lubrication München KG

Reprints, total or in part, are permitted if source
is indicated and voucher copy is forwarded.

Klüber Lubrication München KG
Geisenhausenerstraße 7, 81379 München, Deutschland
☎ +49 89 7876-0, Telefax +49 89 7876-333, www.klueber.com