ISOFLEX LDS 18 SPECIAL A

Dynamically light, long-term lubricating grease

Your benefits at a glance

- 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

Your requirements - our solution

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.

Material safety data sheets

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

Pack sizes	ISOFLEX LDS 18 SPECIAL A
Cartridge 400 g	+
Can 1 kg	+
Bucket 5 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	ISOFLEX LDS 18 SPECIAL A
Article number	004013
Composition, thickener	lithium soap
Composition, type of oil	ester oil , mineral oil
Colour space	yellow
Texture	homogeneous , short fibrous
Service temperature, lower limit	-50 °C
Service temperature, upper limit	120 °C

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Characteristics	ISOFLEX LDS 18 SPECIAL A
Density, Klüber method: PN 024, 20°C	approx. 0.88 g/cm³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s^{-1}, lower limit	2000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s^{-1}, upper limit	4000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 3.5 mm²/s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 15 mm²/s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	0 corrosion degree
Low temperature torque, IP 186, -60°C, running torque	≤ 100 mNm
Low temperature torque, IP 186, -60°C, starting torque	≤ 1000 mNm
Dropping point, DIN ISO 2176 / IP 396	≥ 190 °C
Speed factor (n x dm)	approx. 1000000 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 95 years.

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