

ISOFLEX PDL 300 A

Heavy-duty grease for rolling bearings operating at low temperatures



Benefits for your application

- **For low temperatures**
- **Uniformly low starting and running torque**
- **Resistant to ageing and oxidation**
- **Good corrosion protection**

Description

ISOFLEX PDL 300 A is a synthetic heavy-duty grease for low temperatures. It consists of ester oil and lithium soap. Owing to its well-balanced texture and consistency, this special grease ensures uniformly low starting and running torques.

Application

ISOFLEX PDL 300 A is suitable for plain and rolling bearings, and for sliding points such as cams, bolts, meters, cam plates, and adjusting rings used in automotive, telecommunications and precision engineering, in instruments, and in cryotechnology applications.

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.

Minimum shelf life

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

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.

Pack sizes	ISOFLEX PDL 300 A
Can 1 kg	+
Bucket 25 kg	+



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Product data	ISOFLEX PDL 300 A
Article number	004074
Upper service temperature	110 °C / 230 °F
Lower service temperature	-70 °C / -94 °F
Speed factor (n x dm)	1 000 000 mm/min
Worked penetration, acc. to Klein, 25 °C, upper limit value	320 0,1 mm
Worked penetration, acc. to Klein, 25 °C, lower limit value	280 0,1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 7.5 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 2.6 mm ² /s
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	2 500 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	1 000 mPas
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Drop point, DIN ISO 2176	>= 180 °C
Colour space	yellow
Density at 20 °C	approx. 0.94 g/cm ³
Texture	homogeneous

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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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