

# ISOFLEX PDL 300 A

High-performance grease for rolling bearings operating at low temperatures



## Your benefits at a glance

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

## Your requirements - our solution

ISOFLEX PDL 300 A is a synthetic high-performance 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.

## 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 PDL 300 A
Can 1 kg	+
Bucket 25 kg	+

Characteristics	ISOFLEX PDL 300 A
Article number	004074
Colour space	yellow
Texture	homogeneous
Service temperature, lower limit	-70 °C
Service temperature, upper limit	110 °C
Density, Klüber method: PN 024, 20°C	approx. 0.94 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	280 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	320 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , lower limit	1000 mPas

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Characteristics	ISOFLEX PDL 300 A
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	2500 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 2.6 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 7.5 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
Flow pressure, DIN 51805-2, -70°C	≤ 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 180 °C
Speed factor (n x dm)	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 90 years.

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