

ISOFLEX® PDL 300 A

Heavy-duty grease for rolling bearings operating at low temperatures



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 the original closed container in a dry place.

Pack sizes:

1 kg can
25 kg hobstock

ISOFLEX PDL 300 A

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

Product data:

Colour	light yellow
Texture	homogeneous
Density, at 20 °C, g/cm ³ , approx.	0.94
Service temperature range*, °C, approx.	- 70 to 110
Drop point, DIN ISO 2176, °C	> 180
Worked penetration, DIN ISO 2137, (ASTM D 217); 0.1 mm	280 to 320
Copper corrosion, DIN 51 811, 24 h / 100 °C, corrosion rating	1 – 100
Base oil viscosity, DIN 51 562/1, at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	9.0 2.6
Speed factor** (n x d _m), mm x min ⁻¹ , approx.	1,000,000
Apparent dynamic viscosity, Klüber viscosity grade***	EL / 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 mechanical 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.



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