

ISOFLEX PDP series

Synthetic long-term oils



Benefits for your application

- **Synthetic long-term oils**
- **Wide service temperature range**
- **Low pour point**
- **Good viscosity-temperature behaviour**
- **Oxidation and ageing stability**
- **Good corrosion protection**

Description

ISOFLEX PDP oils are synthetic long-term oils based on ester oil. They show a good viscosity-temperature behaviour, a high flash point, a low pour point, good aging and oxidation stability as well as corrosion protection. Compared to mineral oils, they hardly change their viscosity at low or high temperatures thus ensuring less decrease in performance and reduced power consumption.

Application

ISOFLEX PDP oils are ideally suited for lubrication points which have to meet high demands and show a long service life. They can be used for rolling bearings subject to high thermal and static loads, even at high speeds, plain bearings, guides in communication equipment, radio-probes, precision and measuring instruments, control systems, turbines, synchronous motors and elements with exacting tolerance in the fields of telecommunication, data systems and cryotechnology. Furthermore, ISOFLEX PDP oils are suitable for the impregnation of sintered bearings and sintered compacts.

ISOFLEX PDP 61 A Fernschreib. K has been especially designed for mechanically actuated friction points in teletypewriters.

Application notes

ISOFLEX PDP oils are neutral towards metals. Due to the great variety of different elastomers and plastics, their compatibility with these oils has to be checked prior to series application.

ISOFLEX PDP oils are miscible with mineral oils. However, we recommend removing the used oil from the lubrication point in order to fully utilize the performance of these oils.

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 PDP 10 | ISOFLEX PDP 38 | ISOFLEX PDP 48 | ISOFLEX PDP 61 A FERNSCHR-EIB.K | ISOFLEX PDP 65 |
|---------------|----------------|----------------|----------------|---------------------------------|----------------|
| Canister 1 l | + | + | + | + | + |
| Canister 20 l | + | + | + | + | + |



ISO FLEX PDP series

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| Product data | ISO FLEX PDP 10 | ISO FLEX PDP 38 | ISO FLEX PDP 48 | ISO FLEX PDP 61 A FERNSCHR-EIB.K | ISO FLEX PDP 65 |
|--|--------------------------------|--------------------------------|--------------------------------|----------------------------------|--------------------------------|
| Article number | 025006 | 025007 | 025010 | 025011 | 025012 |
| Upper service temperature | 100 °C / 212 °F | 100 °C / 212 °F | 100 °C / 212 °F | 100 °C / 212 °F | 100 °C / 212 °F |
| Lower service temperature | -65 °C / -85 °F | -65 °C / -85 °F | -50 °C / -58 °F | -45 °C / -49 °F | -50 °C / -58 °F |
| Appearance | clear | clear | clear | clear | clear |
| Colour space | yellow | yellow | yellow | red | yellow |
| Density, DIN 51757, 20 °C | approx. 0.93 g/cm ³ | approx. 0.92 g/cm ³ | approx. 0.92 g/cm ³ | approx. 0.92 g/cm ³ | approx. 0.92 g/cm ³ |
| Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C | approx. 8 mm ² /s | approx. 12 mm ² /s | approx. 30 mm ² /s | approx. 50 mm ² /s | approx. 68 mm ² /s |
| Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C | approx. 2.3 mm ² /s | approx. 3.2 mm ² /s | approx. 7.9 mm ² /s | approx. 12 mm ² /s | approx. 16 mm ² /s |
| Viscosity index, DIN ISO 2909 | approx. 110 | approx. 125 | approx. 240 | >= 220 | >= 250 |
| Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus | approx. 200 °C | >= 200 °C | approx. 200 °C | >= 180 °C | approx. 180 °C |
| Pour point, DIN ISO 3016 | approx. -70 °C | <= -70 °C | approx. -50 °C | <= -50 °C | <= -55 °C |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 60 months | 60 months | 60 months | 60 months | 60 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 80 years.

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