

# ISOFLEX PDP

Synthetic long-term oils



## Your benefits at a glance

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

## Your requirements - our solution

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.

## 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](http://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 FERNSCHREIB.K
Canister 1 l	+	+	+	+
Canister 20 l	+	+	+	+
Drum 200 l				

Pack sizes	ISOFLEX PDP 65
Canister 1 l	+
Canister 20 l	+

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Pack sizes	ISOFLEX PDP 65
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Drum 200 l	+
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Characteristics	ISOFLEX PDP 10	ISOFLEX PDP 38	ISOFLEX PDP 48	ISOFLEX PDP 61 A FERNSCHREIB.K
Article number	025006	025007	025010	025011
Appearance	clear	clear	clear	clear
Colour space	yellow	yellow	yellow	red
Service temperature, lower limit	-65 °C	-65 °C	-50 °C	-45 °C
Service temperature, upper limit	100 °C	100 °C	100 °C	100 °C
Density, DIN 51757, 20°C	approx. 0.93 g/cm <sup>3</sup>	approx. 0.92 g/cm <sup>3</sup>	approx. 0.92 g/cm <sup>3</sup>	approx. 0.92 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland open cup	approx. 200 °C	≥ 200 °C	approx. 200 °C	≥ 180 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 2.3 mm <sup>2</sup> /s	approx. 3.2 mm <sup>2</sup> /s	approx. 7.9 mm <sup>2</sup> /s	approx. 12 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 8 mm <sup>2</sup> /s	approx. 12 mm <sup>2</sup> /s	approx. 30 mm <sup>2</sup> /s	approx. 50 mm <sup>2</sup> /s
Viscosity index, DIN ISO 2909	approx. 110	approx. 125	approx. 240	≥ 220
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -70 °C	≤ -70 °C	approx. -50 °C	≤ -50 °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

Characteristics	ISOFLEX PDP 65
Article number	025012
Appearance	clear
Colour space	yellow
Service temperature, lower limit	-50 °C
Service temperature, upper limit	100 °C
Density, DIN 51757, 20°C	approx. 0.92 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland open cup	approx. 180 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 16 mm <sup>2</sup> /s

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Characteristics	ISOFLEX PDP 65
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 68 mm <sup>2</sup> /s
Viscosity index, DIN ISO 2909	≥ 240
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	≤ -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

## 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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