

# PARALIQ P 12, P 40, P 40 Spray

Lubricating oils for the food and pharmaceutical industries



## Benefits for your application

- Based on medically pure oils
- NSF H1 and NSF 3H-registered supporting process reliability
- NSF ISO 21469 certified - supports compliance with the hygienic requirements of your production. You will find further information on ISO Standard 21469 on our website [www.klueber.com](http://www.klueber.com)

## Description

PARALIQ P 12, P 40 and P 40 Spray are based on medically pure special oils which are neutral in odour and taste acc. to the European Pharmacopoeia (medical white oil).

PARALIQ P 12, P 40 and P 40 Spray are NSF H1 registered and therefore comply with FDA 21 CFR § 178.3570. The lubricants were developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of PARALIQ P 12, P 40 and P 40 Spray can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

PARALIQ P 12 and PARALIQ P 40 are also registered as NSF 3H. Being compliant with FDA CFR 21 § 178.3910 (a), the products can be used as a surface lubricant for the production of metal articles, e.g. for food packaging.

## Application

PARALIQ P 12, P 40, P 40 Spray can be used for machines in the food-processing and pharmaceutical industries requiring medically pure oils, e.g. spindles, joints, chains, gearwheels, plain bearings, pistons, guides and tubular tracks.

Please do not spray in enclosed space for example electrical cabinets. Please see product label for more information.

The oils can also be used for corrosion protection. PARALIQ P 12 can also be used as a heat transfer oil in enclosed systems in the food-processing, pharmaceutical and cosmetics industries.

## Application notes

- The oils can be applied by means of brush, oil feeder or automatic lubrication systems.
- When applied in automatic lubrication systems please observe the maximum viscosity specified by the machine manufacturer.
- Do not spray on a naked flame or any incandescent material and keep away from sources of ignition.
- Do not expose to direct sunlight and temperatures above 50 °C!
- If PARALIQ P 12 is used as a heat transfer oil, the temperature must not exceed 200 °C! We recommend checking its chemical and physical characteristics on a regular basis.

## 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	PARALIQ P 40	PARALIQ P 12	Paraliq P 40 Spray
Aerosol can 250 ml	-	-	+
Canister 20 l	+	+	-



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Product data	PARALIQ P 12	PARALIQ P 40	Paraliq P 40 Spray
Article number	061005	061006	081171
NSF-H1, 3H registration	56 374	56 379	
NSF-H1 registration			139 385
NSF-H1, HT1 registration	56 374		
Chemical composition, type of oil	paraffinic mineral oil	paraffinic mineral oil	paraffinic mineral oil
Lower service temperature	-10 °C / 14 °F	-10 °C / 14 °F	-10 °C / 14 °F
Upper service temperature	60 °C / 140 °F	60 °C / 140 °F	60 °C / 140 °F
Colour space	colourless	colourless	colourless
Density, DIN 51757, 20 °C	approx. 0.86 g/cm <sup>3</sup>	approx. 0.88 g/cm <sup>3</sup>	approx. 0.88 g/cm <sup>3</sup>
ISO viscosity grade, DIN ISO 3448		68	68
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 3.7 mm <sup>2</sup> /s	approx. 7.7 mm <sup>2</sup> /s	approx. 7.7 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 21 mm <sup>2</sup> /s	approx. 70 mm <sup>2</sup> /s	approx. 70 mm <sup>2</sup> /s
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	24 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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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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