

PARALIQ 91, PARALIQ 91 Spray

Synthetic lubricating oil for use in the food and pharmaceutical industries



Benefits for your application

- **Neutral in taste and odour**
- **NSF H1 and NSF 3H registered supporting process reliability**
- **ISO 21469 certified - supports the compliance with the hygienic requirements in your production plant. You will find further information on ISO Standard 21469 on our website www.klueber.com**

Description

PARALIQ 91 is a food-grade lubricating oil based on a synthetic ester oil which has been developed as release agent for tins, moulds, cutting boards and other solid surfaces in contact with foodstuffs. PARALIQ 91 is neutral in odour and taste.

PARALIQ 91 is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of PARALIQ 91 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

PARALIQ 91 is also registered as NSF 3H. Being compliant with FDA CFR 21 § 178.3910 (a), the product can be used as a surface lubricant for the production of metal articles, e.g. for food packaging.

Application

PARALIQ 91 is used as release agent for baking tins and moulds in the food-processing industry.

The lubricant can also be used as high-performance needle and sinker oil in textile machines as well as for deep-drawing or

bending of packages for the pharmaceutical and food-processing industries.

This special oil is tried-and-tested as release agent for moulds in blister machines used for the deep-drawing of film (bottom film).

Application notes

PARALIQ 91 can be applied by spray can, brush, oil feeder or drip-feed system onto the baking tins and moulds.

Before applying PARALIQ 91 all lubrication points should be cleaned to ensure maximum hygiene conditions.

Do not spray on a naked flame or any incandescent material and keep away from sources of ignition. Please see product label for more information.

The minimum shelf life of PARALIQ 91 Spray is approx. 36 months. Please protect the spray from direct sunlight and temperatures above 50 °C.

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	PARALIQ 91	PARALIQ 91 Spray
Aerosol can 400 ml	-	+
Canister 5 l	+	-
Canister 20 l	+	-



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Product data	PARALIQ 91	PARALIQ 91 Spray
Article number	096002	081042
NSF-H1, 3H registration	056 380	139 384
NSF-H1, HT1 registration	056 380	
Chemical composition, type of oil	ester oil	ester oil
Colour space	yellow	yellow
Density, DIN 51757, 20 °C	approx. 0.95 g/cm ³	approx. 0.95 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 14 mm ² /s	approx. 14 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 3.6 mm ² /s	approx. 3.6 mm ² /s
Viscosity index, DIN ISO 2909	>= 120	>= 120
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	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 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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