

# Klüberfood NH1 4-220 N Spray

Synthetic special lubricating oil for the food and pharmaceutical industries



## Benefits for your application

- Wide application range with the multi-purpose fully synthetic oil including applications such as chains and slides
- Optimum penetration and wear protection resulting from the medium base oil viscosity
- NSF H1 registered supporting process reliability

## Description

Klüberfood NH1 4-220 N is a lubricating oil based on synthetic hydrocarbons for the food-processing and pharmaceutical industries. This synthetic lubricating oil protects against corrosion and displays good anti-wear properties.

Klüberfood NH1 4-220 N 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 Klüberfood NH1 4-220 N can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

## Application

Klüberfood NH1 4-220 N Spray is used in the food-processing and pharmaceutical industries for all friction points where incidental contact with the food product cannot be excluded.

Suitable for the lubrication of spindles, joints and chains.

Klüberfood NH1 4-220 N Spray protects special steel components.

Please do not spray in enclosed spaces, for example electrical cabinets.

## Application notes

Klüberfood NH1 4-220 N Spray is miscible with mineral oil and synthetic hydrocarbons, however we recommend not mixing it with conventional lubricants in order to retain its food-grade status.

Protect product against direct sunlight and temperatures above 50°C.

## 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	Klüberfood NH1 4-220N Spray
Aerosol can 400 ml	+

## Note

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.

Product data	Klüberfood NH1 4-220N Spray
Article number	081299
NSF-H1 registration	138 157
Chemical composition, type of oil	ester oil
Chemical composition, type of oil	synthetic hydrocarbon oil



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Product data	Klüberfood NH1 4-220N Spray
Lower service temperature	-30 °C / -22 °F
Upper service temperature	120 °C / 248 °F
Colour space	yellow
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 220 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 26 mm <sup>2</sup> /s
Viscosity index, DIN ISO 2909	>= 140
ISO viscosity grade, DIN ISO 3448	220
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	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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