

Klüberfluid NH1 CM 4-100 Spray

Semi-dry lubricating fluid offering very good adhesion



Your benefits at a glance

- NSF H1 registered for higher process reliability
- Reduction of lubricant quantities possible due to
 - excellent resistance to ageing and oxidation
 - very good penetration behaviour
- Reliable operation because of very good resistance to water, steam and cleaning agents
- The formulation does not contain any saturated and aromatic mineral oil components

Your requirements - our solution

As a manufacturer in the food-processing or any other industry, you prefer a sprayable lubricant enabling you to reduce lubricant quantities and consequently minimise the contamination risk for your product. This is why Klüber Lubrication has developed a semi-dry lubricant offering highly effective lubricating behaviour.

Klüberfluid NH1 CM 4-100 is a spray based on a fully synthetic hydrocarbon oil combined with a carefully selected, high-performance solid lubricant and additive package. We deliberately designed this product without mineral oil in order to minimise the risk of MOSH/MOAH contamination. If applied correctly, a semi-dry lubricating effect can be attained with this product. Klüberfluid NH1 CM 4-100 shows very good adhesion to surfaces and high load-carrying capacity. As it is also highly resistant to ageing and oxidation, the product enables longer relubrication intervals and hence lower lubricant quantities being required. This minimises the contamination risk for your product.

Klüberfluid NH1 CM 4-100 Spray is NSF H1 registered and therefore in compliance 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 Klüberfluid NH1 CM 4-100 Spray can contribute to increased reliability of your production equipment and processes. We recommend conducting an additional risk analysis, e.g. HACCP.

Application

The product can be used for the lubrication of chains, joints and guideways as well as of hinges and locks, even when exposed to media. It was especially developed for the food-processing and pharmaceutical industries. Due to its performance characteristics, Klüberfluid NH1 CM 4-100 Spray can also be used in other industries.

Application notes

Please apply Klüberfluid NH1 CM 4-100 Spray evenly. For the product to provide its full effect, we recommend thorough cleaning of the lubrication point prior to application. If your production process does not allow cleaning, we will be pleased to support you in checking the miscibility of greases and determining relubrication intervals.

Do not spray against naked flame or onto hot or incandescent objects. Keep away from ignition sources. Protect against direct sunlight and temperatures above 50 °C. Shake well before use.

For further application notes, please refer to the label or the safety data sheet.

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

Aerosol can 400 ml

**Klüberfluid NH1 CM 4-100
Spray**

+

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Note

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

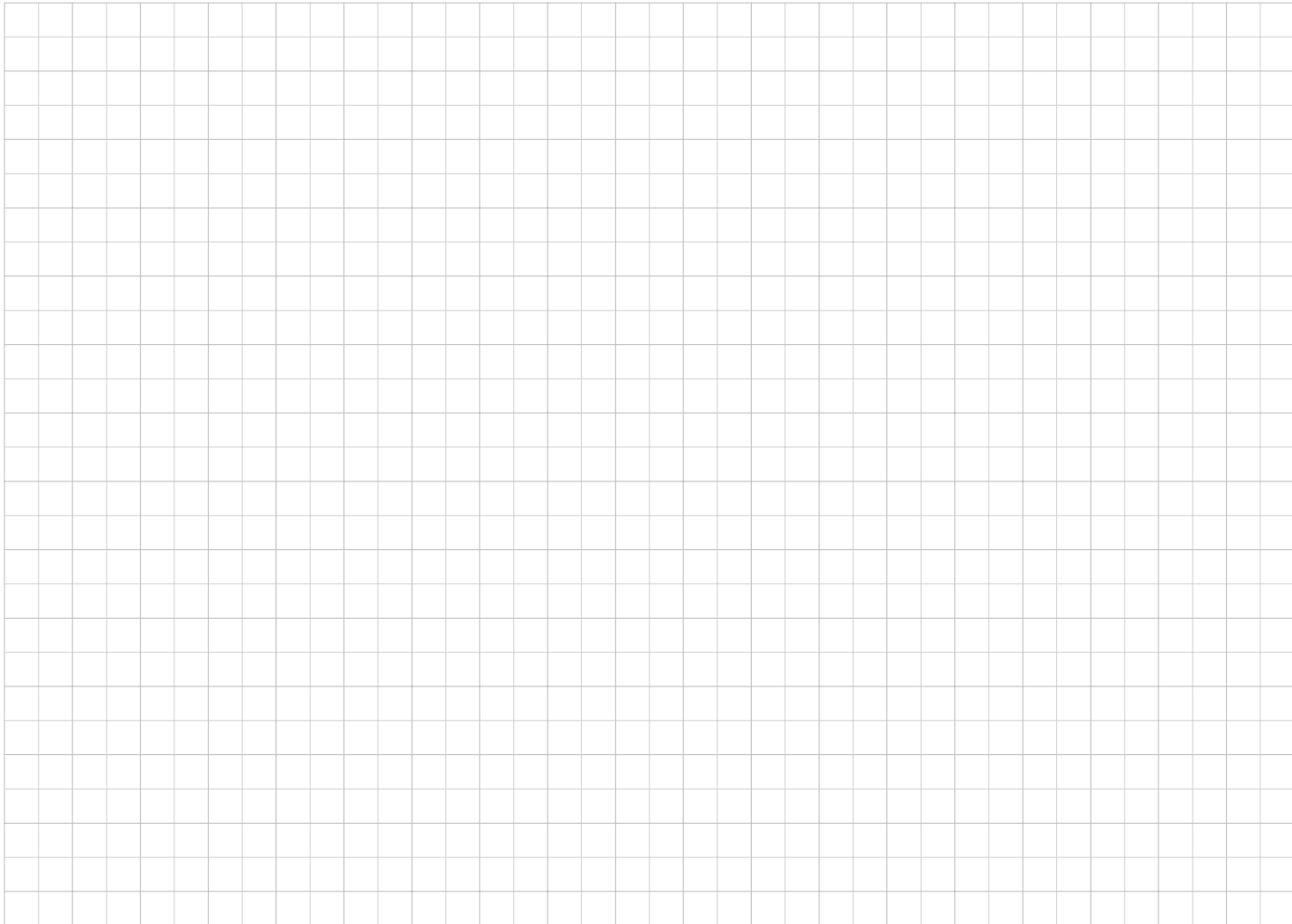
Product data	Klüberfluid NH1 CM 4-100 Spray
Article number	081367
NSF-H1 registration	158 097
Chemical composition, solid lubricant	PTFE
Chemical composition, type of oil	synthetic hydrocarbon oil
Colour space	white
Viscosity index, DIN ISO 2909	120
ISO viscosity grade, DIN ISO 3448	100
Density at 20 °C	approx. 0.86 g/cm ³
Pour point, DIN ISO 3016	<= -40 °C
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 240 °C
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 12.1 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 100 mm ² /s
Lower service temperature	-35 °C / -31 °F
Upper service temperature	180 °C / 356 °F
Four-ball EP tester, welding load, DIN 51350 part 2	approx. 3 000 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months





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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.

**Klüber Lubrication München SE & Co. KG /
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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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