Klüberoil 4 UH1-1500 N Spray

Synthetic gear and multipurpose oil for the food-processing and pharmaceutical industries

Your benefits at a glance

- Registered as NSF H1
- High scuffing protection
- Good wear protection for gears and rolling bearings
- Good shear stability for reliable lubricant film formation
- Excellent ageing and oxidation resistance
- Wide service temperature range due to good viscosity-temperature behaviour
- Low foaming tendency
- Energy savings due to optimised friction behaviour
- Good elastomer compatibility

Your requirements - our solution

Klüberoil 4 UH1-1500 N Spray is a synthetic high-performance gear and multipurpose oil based on polyalphaolefin satisfying the growing requirements and increasing power densities.
Klüberoil 4 UH1-1500 N Spray is based on high-grade raw materials and advanced additives, enabling maximum performance.

Klüberoil 4 UH1-1500 N Spray is registered as NSF H1 for use in the food-processing and pharmaceutical industries and complies with FDA 21 CFR Sec 178.3570. It was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of Klüberoil 4 UH1-1500 N Spray can contribute to increase reliability of your production processes. Nevertheless it is recommended to conduct an additional risk analysis, e.g. HACCP.

Gears are sufficiently protected against scuffing even at extremely high peak loads, vibrations or oscillations, or if no running-in was performed. The good wear protection of both gears and rolling bearings ensures that the service life calculated for the lubricated components is achieved, leading to lower maintenance and repair costs.

Klüberoil 4 UH1-1500 N Spray offers a much longer service life than mineral and white oils due to the excellent ageing and oxidation resistance of the selected raw materials; thus service intervals can be extended and maintenance costs reduced. The product's good anti-corrosive properties enable problem-free gear operation.

The good viscosity-temperature behaviour supports the formation of a sufficient lubricant film across a wide service temperature range, even at elevated and high temperatures.

The optimised friction behaviour enabled by the carefully selected base oils reduces power loss and improves efficiency of your application.

By using Klüberoil 4 UH1-1500 N Spray you can benefit from a number of advantages that will help you save costs easily and efficiently. We look forward to hearing from you.

Application

Klüberoil 4 UH1-1500 N Spray was developed for the lubrication of spur, bevel and worm gears subject to high loads, bearings, spindles, joints as well as lifting, drive and transport chains.

Application notes

Klüberoil 4 UH1-1500 N Spray is miscible with mineral oils and synthetic hydrocarbons. Prior to switchover, lubrication points should be cleaned. In view of the H1 requirements in the food-processing industry, any mixture with non-H1 lubricants during conversion has to be prevented.

Shake well before use. Ensure sufficient ventilation during spraying as explosive mixtures may form.
Do not spray against nake flame or onto hot incandescent objects.
Observe additional instructions for use in material safety data sheet and on can label.

For more details on MOSH/MOAH and their assessment in H1 lubricants, please visit our website or contact your Klüber representative.

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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	Klüberoil 4 UH1-1500 N Spray
Aerosol can 400 ml	+

Hint

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

Characteristics	Klüberoil 4 UH1-1500 N Spray
Article number	081263
Service temperature, upper limit	120 °C
NSF H1 registration number	130064
Density, DIN 51757, 15°C	approx. 866 kg/m³
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 200 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	1500
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 125 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 1500 mm²/s
Viscosity index, DIN ISO 2909	≥ 180
Copper corrosion, DIN EN ISO 2160, 24 h, 100°C	1 - 100 - 24 corrosion degree
Steel corrosion, DIN ISO 7120 / ASTM D665, method A, 24 h, 60°C	rust-free
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	≤ -25 °C
Ageing behaviour, DIN EN ISO 4263-4 / ASTM D2893, 312 h, 95°C, increase in viscosity at 100°C	≤ 6 %
FAG FE8 rolling bearing test, DIN 51819-3, D-7.5 / 80-80, wear of cage	≤ 200 mg
FAG FE8 rolling bearing test, DIN 51819-3, D-7.5 / 80-80, wear of rolling elements	≤ 30 mg
FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, failure load stage	≥ 12
Mineral Oils associated with MOSH (Mineral Oil Saturated Hydrocarbons) / MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	No component of recipe
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 95 years.

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