

# Klüberplus NH1 Z 03-30 US

Concentrated, synthetic conditioner for compressors, hydraulic systems, gears and other oil circulation systems



### Benefits for your application

- Dissolves varnish and carbon deposits in equipment used in the food & beverage industry, thus reducing maintenance and cleaning costs
- Used during operation, no downtime or dismantling of machines for cleaning
- Easy application due to the neutral behavior towards seals, when added to the compressor oil on 1 to 10 ratio
- Reduced operating and maintenance costs due to higher efficiency (e.g. compressor) and longer service life of the fresh oil fill

#### Description

Klüberplus NH1 Z 03-30 US is a concentrated conditioner fluid that is miscible with mineral oils, synthetic hydrocarbons, ester oils and polyglycols.

Klüberplus NH1 Z 03-30 US is registered as NSF HX-1 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.

### Application

Klüberplus NH1 Z 03-30 US has been especially designed for cleaning screw-type compressors, hydraulic systems, gears and other oil circulating systems like calendars. The conditioner can be used for oils based on mineral oil, synthetic hydrocarbon, ester oil and polyglycol.

Using mineral oil in oil-injected screw-type and sliding vane compressors may lead to varnish and carbon buildup in the entire oil circuit or form sticky residues on valves and hot surfaces in hydraulic systems. This often results in increased energy consumption, sticky valves, clogged oil lines and filters and increased downtime due to maintenance.

Klüberplus NH1 Z 03-30 US is a concentrated conditioner fluid which dissolves varnish and carbon buildup during operation and keeps them suspended in the compressor oil. Therefore, it is no longer necessary to dismantle the system for cleaning. The oil containing the residues is completely drained before refilling the unit with fresh oil.

### Application notes

Add Klüberplus NH1 Z 03-30 US to the oil reservoir in a 1 to 10 ratio. Be sure to drain enough oil to allow for the additional Klüberplus NH1 Z 03-30 US quantity. Let the unit continue operating for an additional 20 to 40 hours at an operating oil temperature of 70 – 80 °C, if possible, to dissolve all varnish, carbon buildup, and sticky residues. Drain the unit after max. 80 hours. Make sure the oil is also removed from tubes, filter housings and dead corners. Residual used oil in the system may severely affect the fresh oil. Then exchange filters and oil separators and refill the unit with the fresh oil.

Especially when using Klüberplus NH1 Z 03-30 US in gears and other highly loaded units, please take the viscosity and the wear protection of the oil and Klüberplus NH1 Z 03-30 US mixture into consideration when adding Klüberplus NH1 Z 03-30 US to the oil fill.

Your contact person at Klüber Lubrication would be pleased to assist you in cleaning your machines with Klüberplus NH1 Z 03-30 US.

#### Safety data sheets

You can obtain safety data sheets through your contact person at Klüber Lubrication.





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Pack sizes	Klüberplus NH1 Z 03-30 US
Canister	3.81
Pail	19
Drum	208

Product data	Klüberplus NH1 Z 03-30 US
Article number	320716
Color space	Yellow
Appearance	Clear
Density, DIN 51757, 20 °C	Approx. 0.95 g/cm <sup>3</sup>
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D7042, 40 °C	Approx. 30 mm <sup>2</sup> /s
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 260 °C
NSF HX-1 Registration	161131
Minimum shelf life from the date of manufacture – in a dry, frostfree place and in the unopened original container, approx.	60 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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