

## Klüber Summit® SH 32, 46, 68, 100

Synthetic air compressor oils for oil change intervals up to 10,000 operating hours\*

### Benefits for your application

- Low maintenance and operating costs due to extended oil change intervals up to 10,000 operating hours\* in oil-injected screw-type compressors
- Easy compressor oil conversion due to neutral behaviour of oils towards seals\*\*
- Low tendency to evaporation ensures clean (oil-free) compressed air and oil-free compressed air ductwork system, no unnecessary cleaning or failure of gummed pneumatic valves
- Low formation of oxidation residues in the oil circuit, reduced operating costs due to extended oil filter and separator life

### Application

Klüber Summit SH oils have been designed especially for the lubrication of highly loaded, oil-injected screw-type compressors with oil change intervals up to 10,000 operating hours\*.

Klüber Summit SH oils can also be used for compressors that were previously run with mineral oils. They are neutral towards most elastomer seals used in air compressors, therefore leakage is not to be expected.

Klüber Summit SH 32 is especially suitable for centrifugal compressors and Klüber Summit SH 100 for reciprocating piston compressors.

Klüber Summit SH oils offer good oxidation stability due to the synthetic base oil, thus minimizing oxidation residues in the compressors and extending oil change intervals and the service life of oil filters and separators. Special inhibitors contained in the oils keep the inside of compressors clean.

Owing to the evaporation stability of the base oil, the oil vapour content in the compressed air can be considerably reduced compared to conventional mineral oils. This contributes to a reduction of oil consumption and clean compressed air; gumming of pneumatic valves in the compressed air circuit can be prevented as well due to the low oil content of the Klüber Summit SH oils.

### Description

Klüber Summit SH oils are air compressor oils based on synthetic hydrocarbon and additives. They can be mixed with mineral oils and synthetic hydrocarbon oils, however are not miscible with polyglycol oils.

### Application notes

When selecting the oil viscosity for air compressors please observe the manufacturers' instructions.

When switching a used compressor to a Klüber Summit SH oil, drain old oil from whole circuit of compressor while still warm. We also recommend changing all oil filters and separators. Then refill the compressor with Klüber Summit SH oil.

When switching from mineral oil to a synthetic Klüber Summit SH oil please consider that the compressor may contain oxidation residues in the form of blackened or contaminated oil. As such residues can affect the service life of the fresh Klüber Summit SH oil, the compressor should be cleaned using the Klüber Summit Varnasolv conditioner (cf. product information leaflet).

Your contact persons at Klüber Lubrication would be pleased to provide further information.



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### Application notes

After switching to a Klüber Summit SH oil we recommend determining the oil change interval through an oil analysis or the Klüber Summit TAN Kit.

### Pack sizes

19 l canister  
208 l drum

### Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

### Material Safety Data Sheets

Material safety data sheets can be downloaded or requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Product data	Klüber Summit SH 32	Klüber Summit SH 46	Klüber Summit SH 68	Klüber Summit SH 100
Colour, aspect	colourless, clear	colourless, clear	colourless, clear	colourless, light yellow
Density, DIN 51757, [g/cm <sup>3</sup> ], 20°C, approx.	0.85	0.85	0.86	0.86
Kinematic viscosity, DIN 51562, pt. 1				
at 40°C, [mm <sup>2</sup> /s], approx.	32	46	68	100
at 100°C, [mm <sup>2</sup> /s], approx.	5.8	7.3	9.8	13.1
Viscosity index, DIN ISO 2909	≥ 115	≥ 115	≥ 115	≥ 115
Pour point, DIN ISO 3016, [°C]	≤ -51	≤ -36	≤ -36	≤ -33
Flash point, DIN EN ISO 2592, [°C]	≥ 230	≥ 240	≥ 240	≥ 240
Corrosion on copper, DIN EN ISO 2160 (24 h at 100°C), corrosion rating	1-100	1-100	1-100	1-100
Foaming tendency, seq. I, II, III, ASTM-D 892, [ml]	≤ 50/50/50	≤ 50/50/50	≤ 50/50/50	≤ 50/50/50
Demulsification, DIN ISO 6614 [ml]	40/37/3 (30 min.)	40/37/3 (30 min.)	40/37/3 (30 min.)	40/37/3 (60 min.)

\* The indicated oil change intervals are guide values which are based in practical experience. They depend on the intended use, the application method and the technical condition of the compressor. Lubricants change their condition depending on the mechano-dynamical loads, pressures and temperatures and the mixture with oil residues or buildups of the previous oils fills.

\*\* Based on our current experience. Owing to the many different elastomer and plastic components, we recommend the user checking their compatibility under conditions similar to actual use.

### Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

[www.klueber.com](http://www.klueber.com)

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The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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