

## Klüber Summit® DSL 32, 46, 68, 100, 125

Fully synthetic air compressor oils for oil change intervals up to 8,000 operating hours\*

### Benefits for your application

- Low maintenance and operating costs due to oil change intervals up to 8,000 operating hours\* in oil-injected screw-type compressors
- Easier compressor oil conversion due to neutral behavior of oils towards seals\*\*
- Good soil dissolving capacity, clean oil circuit due to the ester content in the oil, reduction of cleaning costs
- Low formation of oxidation residues in the oil circuit, reduced operating costs due to extended oil filter and separator life
- Klüber Summit DSL 32, 68 and 100 are biodegradable oils and can be used for sensitive applications like sewage plants

### Application

The Klüber Summit DSL 32 ... 68 oils have been especially designed for oil change intervals up to 8,000 operating hours\* in oil-injected screw-type compressors. Klüber Summit DSL 32 can also be used for the lubrication of centrifugal compressors, whereas Klüber Summit DSL 68 ... 125 is particularly suitable for the lubrication reciprocating piston compressors.

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

Klüber Summit DSL 32 oils are mainly used in reciprocating piston compressors which do not achieve the desired maintenance intervals when using mineral oils or which show severe residue formation (carbon buildups) on valves and in the compression chamber. Klüber Summit DSL 32, 68 and 100 are biodegradable acc. to CEC-L-33-A-93 and can therefore be used in eco-sensitive application.

Klüber Summit DSL 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 (screw-type compressors) and valves (reciprocating piston compressors).

### Description

Klüber Summit DSL oils are air compressor oils based on a synthetic ester oil and additives. They can be mixed with mineral oils, synthetic hydrocarbon oils and 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 DSL 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 DSL oil.

When switching from mineral oil to a synthetic Klüber Summit DSL 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 DSL 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.

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



## Klüber Summit® DSL 32, 46, 68, 100, 125

Fully synthetic air compressor oils for oil change intervals up to 8,000 operating hours\*

### Minimum shelf life

The minimum shelf life is approx. 60 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.

### Pack sizes

19 l plastic canister  
208 l steel drum

Product data	Klüber Summit DSL 32	Klüber Summit DSL 46	Klüber Summit DSL 68	Klüber Summit DSL 100	Klüber Summit DSL 125
Color, aspect	colorless, clear	colorless, clear	colorless, clear	colorless, clear	colorless, clear
Density, DIN 51757, [g/cm <sup>3</sup> ], 20°C, approx.	0.94	0.97	0.96	0.96	0.96
Kinematic viscosity, DIN 51562, pt. 1					
at 40°C, [mm <sup>2</sup> /s], approx.	32	46	68	100	125
at 100°C, [mm <sup>2</sup> /s], approx.	5.8	5.7	8.3	10.7	13.4
Viscosity index, DIN ISO 2592	≥ 70	≥ 50	≥ 90	≥ 90	≥ 90
Pour point, DIN ISO 3016, [°C]	≤ -42	≤ -39	≤ -36	≤ -30	≤ -30
Flash point, DIN ISO 2592, [°C]	≥ 220	≥ 240	≥ 240	≥ 250	≥ 250
Copper corrosion, DIN EN ISO 2160 (24 h at 100°C), [corrosion rating]	1-100	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	50/50/50
Demulsification, DIN 51599, [ml]	40/37/3 (30 min.)	40/37/3 (30 min.)	40/37/3 (30 min.)	40/37/3 (60 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)

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

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.



Klüber Lubrication, a company of the Freudenberg Group

**Publisher and Copyright: Klüber Lubrication München KG.** Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München KG and if source is indicated and voucher copy is forwarded.