

Klüber Summit® HySyn FG 32 ... 100

Fully synthetic air compressor oils for the food-processing industry and oil change intervals up to 4,000 operating hours*

Benefits for your application

- Low maintenance and operating costs due to extended oil change intervals up to 4,000 operating hours* in oil-injected screw-type compressors
- Easy compressor oil conversion due to neutral behavior of oils towards seals**
- Low tendency to evaporation and thus low impact of the oil vapor on the compressed air; long service life of activated carbon filter
- Comply with NSF H1 requirements for use in the food processing industry

Application

The Klüber Summit HySyn FG 32 ... 68 oils have been especially designed for oil-injected screw-type compressors, the HySyn FG 68 ... 100 oils for reciprocating piston compressors. Klüber Summit HySyn FG 32 is used for the lubrication of centrifugal compressors, whereas Klüber Summit HySyn FG 68 ... 100 is also suitable for the lubrication of gears in oil-free screw-type compressors.

Klüber Summit HySyn FG 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 HySyn FG oils are intended for use in compressors of the food-processing industry requiring oil-free compressed air (without oil vapor which cannot be removed by the oil separator).

Klüber Summit HySyn FG 32 ... 100 comply with the requirements of the "Guidelines of sec. 21 CFR 178.3570 of FDA Regulations". These oils have been registered by NSF under category H1 (NSF Reg. No.133733, 133734, 133735 and 133736).

Klüber Summit HySyn FG 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.

Description

Klüber Summit HySyn FG oils are air compressor oils based on synthetic hydrocarbon and additives. They can be mixed with mineral oils and other 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 HySyn FG 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 HySyn FG oil.

When switching from mineral oil to a synthetic Klüber Summit HySyn FG 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 HySyn FG 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 HySyn FG oil we recommend determining the oil change interval through an oil analysis or the Klüber Summit TAN Kit.

Pack sizes

19 l plastic canister
208 l steel drum

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. You may also obtain them through your contact person at Klüber Lubrication.

Product data	Klüber Summit HySyn FG 32	Klüber Summit HySyn FG 46	Klüber Summit HySyn FG 68	Klüber Summit HySyn FG 100
Color, aspect	colorless, clear	colorless, clear	colorless, clear	colorless, clear
Density, DIN 51757, [g/cm ³], 20 °C, approx.	0.83	0.83	0.83	0.84
Kinematic viscosity, DIN 51562, pt. 1 at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	32 5.8	46 7.7	68 10.4	100 13.8
Viscosity index, DIN ISO 2592	≥ 120	≥ 120	≥ 120	≥ 120
Pour point, DIN ISO 3016, [°C]	≤ -50	≤ -45	≤ -45	≤ -40
Flash point, DIN ISO 2592, [°C]	≥ 230	≥ 240	≥ 240	≥ 240
Foaming tendency, seq. I, II, III, ASTM-D 892, [ml]	150/75/150	150/75/150	150/75/150	150/75/150
Demulsification, DIN 51599, [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 on 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 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

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