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# KLUBER SUMMIT HYSYN FG 46 (DRUM: 200 LTR)

Product group: **683** Product number: **210067**

KLÜBER SUMMIT HYSYN FG 46 is an air compressor oils based on synthetic hydrocarbon oils. Designed with good oxidation stability to reduce oxidation residues in your compressors — extending oil change intervals for you, and prolonging the service lives of your oil filters and separators. Compliant with FDA 21 CFR § 178.3570 and ISO 21469 certified.




## Product information

KLÜBER SUMMIT HYSYN FG 46 is a high-quality air compressor oil that meets the stringent safety and hygiene requirements.
Based on synthetic hydrocarbon oils, it is miscible with mineral and other synthetic hydrocarbon oils. Since it is also highly compatible with common seal materials, converting your compressor oil from mineral oils to KLÜBER SUMMIT HYSYN FG 46 is easy and hassle-free.

KLÜBER SUMMIT HYSYN FG 46 offers good oxidation stability due to its synthetic base oil, minimizing oxidation residues in your compressors. A low evaporation tendency also enables it to minimize any impact of oil vapour on the compressed air. Expect extended oil change intervals and longer service lives of your oil filters and separators.

It is also suitable for the lubrication of gears due to its high scuffing load capacity. It is used and endorsed by brands like Aerzener, Air Liquide, Boge, CompAir, Worthington, Getriebebau Nord, and Lenze.

Features

- Compliant with FDA 21 CFR § 178.3570
- ISO 21469-certified
- Fully synthetic
- Oxidation stability
- Low evaporation tendency
- High scuffing load capacity
- NSF H1-registered for use in the food-processing and pharmaceutical industries

Benefits

- Meets safety and hygiene regulations of the food-processing and pharmaceutical industries
- Reduces maintenance and operating costs
- Easy to convert from mineral oils due to miscibility and compatibility with common seal materials
- Low impact of oil vapour on compressed air
- Extends service life of oil filters, activated carbon filters and oil separators

## Specification

General

| | |
|---|---|
| **Suggested Inventory Hazard Material classification** | C-3 |

Physical properties

| | |
|---|---|
| **Density at 20°C [g/cm³]** | ~ 0.83 |
| **Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm²/s]** | ~ 7.7 |
| **Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm²/s]** | ~ 46 |

Dimensions/Weight

| | |
|---|---|
| **Packing Size** | 200 ltr |

Technical data

| | |
|---|---|
| **Classification acc. to CLP -DIN 51517-3** | Corresponds to |
| **NSF-H1 registration** | 133 734 |
| **Shelf life [months]** | 60 |
| **Viscosity index, DIN ISO 2909** | ≥120 |

Performance data

| | |
|---|---|
| **Copper corrosion, DIN EN ISO 2160, 24 h/100°C** | 1 - 100 corrosion degree |
| **Demulsifying capacity, DIN 51599, ASTM D 1401, at 54 °C** | 40/37/3ml |
| **Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus [°C]** | ≥240 |
| **Foam test, ASTM-D 892, ISO 6247, sequence I/24 °C [ml]** | ≤150/10 |
| **Foam test, ASTM-D 892, ISO 6247, sequence II/ 93.5 °C [ml]** | ≤75/10 |
| **Foam test, ASTM-D 892, ISO 6247, sequence III/24°C [ml]** | ≤150/10 |
| **FZG scuffing test, based on DIN ISO 14635-1, A/8.3/90, scuffing load stage** | ≥12 |
| **Lower service temperature** | -40°C / -40°F |
| **Pour point, DIN ISO 3016 [°C]** | ≤-45 |
| **Upper service temperature** | 135°C / 275°F |

## Documents

SDoC and MD for IHM

## Directions for use

KLÜBER SUMMIT HYSYN FG 46 is suitable for use in oil-injected screw-type compressors, reciprocating piston compressors and centrifugal compressors. It was specially developed for the food-processing and pharmaceutical industries requiring oil-free compressed air.

You may also use KLÜBER SUMMIT HYSYN FG 46 to lubricate gears in oil-free screw-type compressors. Due to its good stability, it is suitable for low-temperature applications in industrial gears.

If you are switching your used compressor from mineral oil to KLÜBER SUMMIT HYSYN FG 46, drain the old oil from the whole circuit of the compressor while it is still warm.

We recommend changing all oil filters and separators before refilling the compressor with KLÜBER SUMMIT HYSYN FG 46.

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