

Klüber Summit® DSL-32, -68, -100, -125

Synthetic compressor oils



Description:

The Klüber Summit DSL oils are fully synthetic compressor oils on a diester basis. They excel due to their high oxidation and thermal stability.

Their high polarity ensures perfect adhesion on metal surfaces and, together with the selected additive package, improves wear protection.

The Klüber Summit DSL oils reduce sludge formation and considerably improve operational safety due to their high flash and self-ignition points. Thus, maintenance is reduced to a minimum and oil change intervals of up to 8 000 service hours can be achieved.

Application:

The Klüber Summit DSL compressor oils meet the requirements acc. to DIN 51 506-VDL.

The 100 and 125 viscosity grades are preferably used for the lubrication of reciprocating and vane compressors. Klüber Summit DSL-32 and 68 have been designed for use in rotary screw compressors and certain vane compressor types.

Application notes:

The previously used compressor oil should be drained while still warm. Please make sure that the system is disconnected from the main power supply and is pressure-free.

After draining the used oil, we recommend flushing the system with the DSL oil viscosity that is going to be used as compressor lubricant. The flushing, which should take at least one hour, ensures that residues in the system are dissolved and removed. Clean or change the filters after the flushing process and recharge with the Klüber Summit DSL operational lubricant.

We recommend attaching a label indicating the type of lubricant used and the filling date to the filter or the cover.

Minimum shelf life:

The minimum shelf life is approx. 60 months if the product is stored in the original closed container in a dry place.

Package sizes:

19 l canister
208 l drum

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- Meet the requirements set in DIN 51 506-VDL
- Prevent sludge formation and thus increase operational safety
- Display excellent lubricating and wear protection properties
- Permit oil change intervals of up to 8 000 service hours

Materials compatibility:

The Klüber Summit DSL oils have been designed to be compatible with epoxy resin based paints, oil-resistant alkyd resins, synthetic materials, such as nylon (polyamide), Celcon (polyacetal), PTFE and elastomers, such as NBR (acrylonitrile content > 30%) and FPM (Viton).

The Klüber Summit DSL oils should not be used with elastomers, such as neoprene, NBR (acrylonitrile content < 30%) and SBR, or synthetic materials, such as PVC and ABS, as well as paints on an acrylic resin base.

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Product data:

	Klüber Summit DSL-32	Klüber Summit DSL-68	Klüber Summit DSL-100	Klüber Summit DSL-125
Colour, appearance	colourless to light yellow, transparent	colourless to light yellow, transparent	colourless to light yellow, transparent	colourless to light yellow, transparent
ISO VG DIN 51 519	32	68	100	–
Density, DIN 51 757 at 20 °C, g/ml, approx.	0.92	0.97	0.97	0.97
Kinematic viscosity, DIN 51 562 at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	31 4.9	64 8.2	95 10.2	125 13.1
Flash point, DIN ISO 2592, °C	> 220	> 240	> 250	> 260
Pour point, DIN ISO 3016, °C	≤ – 40	≤ – 35	≤ – 30	≤ – 30
Self-ignition temperature, DIN 51 794, °C	> 400	> 400	> 410	> 410
Copper corrosion, DIN EN ISO 2160 (24 h at 100 °C), corrosion rating	1 – 100	1 – 100	1 – 100	1 – 100
Foaming tendency, sequence I, II, III, ASTM-D 892, ml	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Demulsifying properties DIN 51 599, ml	40 / 37 / 3	40 / 38 / 2	40 / 38 / 2	40 / 37 / 3
Carbon residue, DIN 51 551, % by weight	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02

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Safety Data Sheet

1.1 Product name: Klüber Summit DSL a) -32, b) -68, c) -100, d) -125 Code-No.: a) 050 000, b) 050 001, c) 050 002, d) 050 003 26.06.2001	9. Physical and chemical properties Form liquid Colour colourless – light yellow Odour mild Pour point a) < – 40, b) <= – 35, c), d) <= – 30 °C, DIN ISO 3016 Flash point a) > 220, b) > 240, c) > 250, d) > 260 °C, DIN ISO 2592 Flammability not applicable Ignition temperature a), b) > 400, c), d) > 410 °C, DIN 51 794 Autoflammability not applicable Lower explosion limit not applicable Upper explosion limit not applicable Vapour pressure-first not applicable Density, approx. a) 0.92, b), c), d) 0.97 g/cm ³ , 20 °C, DIN 51 757 Water solubility insoluble pH value not applicable Kinematic viscosity, approx. a) 31, b) 64, c) 95, d) 125 mm ² /s, 40 °C, DIN 51 562 Further information none
1.2 Klüber Lubrication München KG Emergency telephone no.: Geisenhausenerstraße 7 ++49 - 89 7876 - 0 D-81379 München Tel. ++49 - 89 78 76 - 0 telephone exchange Fax: ++49 - 89 78 76 - 333	10. Stability and reactivity Conditions to avoid: Do not heat above flash point Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None
2. Composition / information on ingredients Chemical characterization (preparation): Ester oil, synthetic hydrocarbon oil Additional information: No hazardous ingredients	11. Toxicological information The toxicological data has been taken from products of similar composition Acute toxicity: LD ₅₀ /oral/rat = > 2 g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis
3. Hazards identification No particular hazards known	12. Ecological information Information on elimination (persistence and degradability): Readily biodegradable (> 70%). Test method: CEC-L-33-A-94 Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Aquatic toxicity is unlikely due to low solubility Additional information: Do not discharge product unmonitored into the environment
4. First aid measures After inhalation: Not applicable After contact with skin: Wash off with soap and plenty of water After contact with eyes: Rinse with plenty of water After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs	13. Advice on Disposal Code of waste: 120 110. Wastes from shaping and surface treatment of metals and plastics; wastes from shaping (including forging, welding, pressing, drawing, turning, cutting and filing); synthetic machining oils Disposal: Dispose of in accordance with your local, state and federal regulations as used oil for incineration Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities
5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for chemical fires Additional information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes	14. Transport information GGVS / GGVE: not applicable ADN / ADN: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations
6. Accidental release measures Personal precautions: Risk of slipping due to leakage/spillage of product Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations Additional information: None	15. Regulatory information Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC-directives/German regulations on dangerous substances National regulations: Labelling according to the Swiss regulations: No toxicological class, BAGT-no. 617084
7. Handling and storage Advice on safe handling: Avoid formation of aerosol Advice on protection against fire and explosion: No special precautions required Requirements on storage rooms and vessels: No special storage conditions required Incompatible materials: Incompatible with oxidising agents. Do not store together with food Further information on storage conditions: Store at room temperature in the original container	16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564
8. Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required Hand protection: No special protective equipment required Eye protection: No special protective equipment required Body protection: No special protective equipment required Other protection measures: No special protective equipment required General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Clean skin thoroughly after work; apply skin cream. Remove soiled or soaked clothing immediately. Do not inhale aerosol	

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 München KG, a member of the Freudenberg group