

DSL® Series (Diester)

Synthetic air compressor lubricants



Your benefits at a glance

- Low temperature fluidity
- Better thermal conductivity, reduces operating temperature
- Reduced friction, approximately 20% lower coefficient of friction
- High temperature thermal stability will not disassociate under thermal stress
- Greater resistance to mechanical stress will not shear under heavy loads or extreme stress
- Reduced metal-to-metal wear-polar properties provided better metal wetting
- Better demulsibility characteristics-moisture separates readily, providing better rust and corrosion protection
- More energy efficiency

Your requirements - our solution

DSL synthetic lubricants are unique combinations of quality diester base stocks and the latest additive technology.

Summit provides a wide range of DSL lubricants that cover applications for rotary vane, rotary screw, and all ages and design types of reciprocating compressors.

These lubricants are designed for use in the crankcase and as a cylinder lubricant. They are compatible with almost all elastomers used in compressors and pumps, including paint used in crankcases.

The following materials are compatible for use with DSL lubricants: Epoxy Paint, Celcon, Viton®, High Nitrile Rubber (Buna N, NBR-greater than 36% Acrylonitrile), Medium Nitrile Rubber (Buna N, NBR 30-36% Acrylonitrile), Teflon®, Oil Resistant Alkyd, and Nylon.

Application

DSL®-32 is recommended for use in the following applications:

- Centrifugal compressors
- Certain rotary screw & vane compressors
- Low temperature lubrication
- High temperature lubrication
- General lubrication for applications requiring an ISO 32 lubricant

DSL®-68 is recommended for use in the following applications:

- Rotary screw and vane applications
- Ball and roller bearings
- Low temperature lubrication
- High temperature lubrication
- Mist lubrication systems
- General lubrication for applications requiring an ISO 68 lubricant

DSL®-100 is recommended for use in the following applications:

- Reciprocating compressors
- Rotary vane compressors
- Ball and roller bearings
- Low temperature lubrication
- High temperature lubrication
- General lubrication for applications requiring an ISO 100 lubricant

DSL®-125 and DSL®-150 are recommended for the following applications:

- Reciprocating compressors
- Rotary vane compressors
- Ball and roller bearings
- Low temperature lubrication
- High temperature lubrication
- General lubrication for applications requiring an ISO 150 lubricant

Application notes

DSL lubricants are not compatible with some elastomers used in compressors and pumps including some paint used in crankcases. Consult the Material Compatibility Guide for specific recommendations.

Material safety data sheets

Material safety data sheets can be requested via our website <https://www.klsummit.com>. You may also obtain them through your contact person at Summit Lubrication.

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Characteristics	DSL-32	DSL-46	DSL-68	DSL-100
Article number	340459	340029	340460	340461
Density	0.939 g/cm ³	0.97 g/cm ³	0.96 g/cm ³	0.96 g/cm ³
Flash point	220 °C	240 °C	240 °C	250 °C
Ignition Point	407 °C	373 °C	407 °C	416 °C
Kinematic viscosity, 100°C	5.1 mm ² /s	5.9 mm ² /s	8.5 mm ² /s	11.1 mm ² /s
Kinematic viscosity, 40°C	32.2 mm ² /s	43.3 mm ² /s	65.3 mm ² /s	98.7 mm ² /s
Viscosity index	78	66	100	97
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-52 °C	-48 °C	-46 °C	-40 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months	36 months	60 months

Characteristics	DSL-125	DSL-150
Article number	340462	340028
Density	0.96 g/cm ³	0.944 g/cm ³
Flash point	250 °C	263 °C
Ignition Point	418 °C	418 °C
Kinematic viscosity, 100°C	13.5 mm ² /s	15.2 mm ² /s
Kinematic viscosity, 40°C	124 mm ² /s	149 mm ² /s
Viscosity index	104	103
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-40 °C	-40 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months

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Summit Lubrication

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

Summit Lubrication a brand of Klüber Lubrication NA LP /
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The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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