

your global specialist

Klüber Air Compressor Oils

Reliable partner for your profitable business



Five Good Reasons to protect your compressor with Klüber Compressor Lubricants

1. Reduce Maintenance costs
2. Reduced Lubricant Consumption
3. Energy Savings
4. Operating Safety
5. Environmentally friendly

Compressors must be kept free of varnish and sludge. Unfortunately, at the higher temperatures varnish can plate out on the rotors, bearings, shafts, and housings, as well as in the separators which leads to costly downtime and expensive repairs. The excellent properties of Klüber's compressor lubricants keep your entire system clear of varnish and sludge while providing proper lubrication and reducing parts replacement, all of which significantly cut maintenance costs.

- Reduced downtime
- Reduced costs for replacement parts, oil filters and oil separators
- Longer oil life
- Prevents deposit formation and keeps the oil circuit clean

Klüber compressor lubricants provide excellent thermal stability, low volatility, excellent shear properties, and superior oxidation resistance. These benefits result in significant decreases in lubricant consumption when compared to conventional petroleum lubricants. They evaporate up to 20 times less than conventional compressor oils.

- Extended drain intervals
- Less evaporation
- Improved oxidation protection
- Reduced make-up consumption

Energy is a major factor in air compressor operating costs. Klüber's compressor lubricants offer a significant economic advantage by improving thermal and mechanical efficiency to lower energy costs.

- Reduced power consumption
- Improved thermal efficiency
- Improved mechanical efficiency
- Reduced friction



Fires and explosions in compressors can usually be traced to deposits of carbon, over lubrication and improper lubricant. Klüber compressor lubricant's excellent cleaning action and superior oxidation resistance keeps your compressor almost carbon-free, providing you with an extra margin of operating safety.

- Reduced residue formation
- Virtually a carbon-free system
- Lower operating temperature
- Superior oxidation resistance
- Higher auto-ignition of synthetic compressor oils

Governmental agencies are insisting that steps be taken to improve the quality of our environment. It is no longer acceptable to improperly dispose of spent lubricants. In most situations, it is now necessary for businesses to pay to have spent lubricants disposed in an environmentally safe manner. Klüber Summit lubricants last many times longer than conventional lubricants resulting in less volume and cost associated with their disposal.

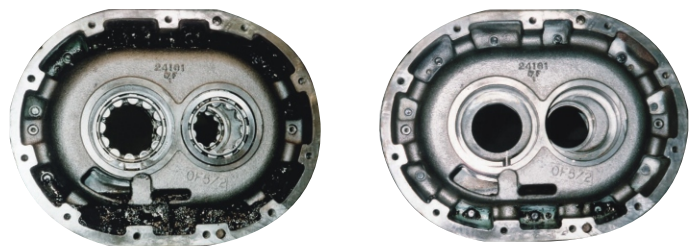


Klüber Summit Varnasolv - Varnish Cleaner – Compressor Cleaning made easy

Klüber Summit Varnasolv is a concentrated conditioner, which easily cleans compressors that are contaminated with old oil residues. For the cleaning no dismantling of the compressor is needed. It is added to the oil fill at a concentration of 10 % before the oil change. While the compressor is still operating, it releases contaminants and deposits there by avoiding the need for compressor disassembly for cleaning.

Klüber Summit Varnasolv, offers the following benefits for your screw-type compressor:

- Miscible with mineral oils, synthetic hydrocarbons, ester oils and polyglycols
- Effective and time-saving cleaning during operation
- Reduced maintenance and downtime costs for unnecessary cleaning work
- Reduced operating temperature of the compressor, resulting in reduced energy costs
- Optimized oil life after cleaning



After a short cleaning time with Varnasolv, your compressor is clean again and runs reliably with Klüber Summit oils

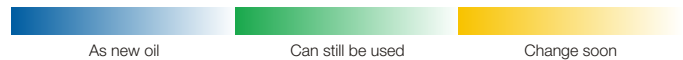
Klüber Summit T.A.N.-Kit

Checking the Oil condition was never so simple.



The Klüber Summit T.A.N.-Kit has been especially designed for the simple and rapid determination of the neutralization number to assess the ageing condition of compressor oils on the spot.

With only 1ml of the oil sample, come to know about the condition of your oil immediately. 3 colours will tell you the condition of the oil.



Klüber Compressor Oils at a glance

Product	Viscosity Grade	Flash Point	Possible operation Time	Base
Klüber Summit PS Series	32 - 150	≥ 200°C	5000	Mineral/Ester
Klüber Summit SH Series	32 - 100	≥ 230°C	10000	PAO
Klüber Summit Ultima Series	52 / 65	≥ 246°C	12000	-
Klüber Summit Supra Coolant	38 / 55	≥ 230°C	8000	Polyglycol
Klüber Summit FG Series	32 - 150	≥ 230°C	5000	PAO
Klüber Summit Varnasolv	30	≤ 230°C	-	Ester

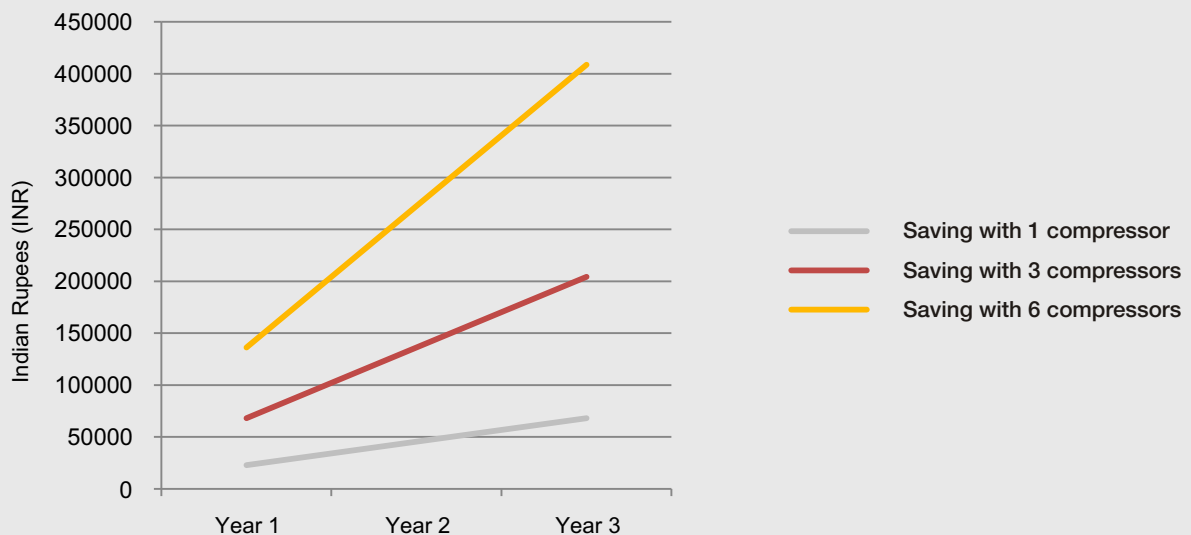


Klüber Compressor Oils – They make money for you

Product Data	Mineral Oil	Klüber Summit SH 46
Oil change interval (h)	4000	8000
Oil costs per change (INR)	27025	33840
Oil change costs per year (INR)	2 oil change = 54050	1 oil change = 33840
Oil filter costs (INR)	2 x 5500 = 11000	2 x 5500 = 11000
Oil separator (INR)	1x 36000 = 36000	1x 36000 = 36000
Maintenance costs (INR)	2x 2500 - 5000	1x 2500 - 2500
Total costs (INR)	106050	83340
Total savings (INR)*	-	22710

*Calculation example: screw-type compressor with oil injection running 8.000 hrs. per year

Klüber compressor oil saving over mineral oil gets bigger with the number of compressors



Klüber lubricants for compressors

Klüber Compressor Oils – Performance that counts

- Reduced downtime costs
- Increased Compressor availability
- Reduced spare parts costs for oil, oil filter and oil separator
- Less strain on the environment and resources due to lower energy consumption and lower disposal quantities.
- Reduces friction in the compressor and offers a better gap sealing effect.
- Low pour points
- Excellent water demulsibility
- Suitable for oil change intervals up to 12,000 hours depending on the operating conditions and oil type.



Courtesy: Atlas Copco

The above picture represents a rig well compressor. Klüber compressor oils ensure longer re-lubrication intervals as well as a longer filter and separator life.

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Klüber Lubrication - your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.



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