



Sullube™

**The first. The last. The "only" lubricant
you'll ever need.**

Sullube, a reliable, extended-life synthetic fluid, specially formulated for use in rotary screw compressors.

The highest performance fluid

Sullube™ fluid has proven to be superior to both hydrocarbon oils and other synthetic fluids. It exhibits a number of unique characteristics which provide measurable benefits for customers:

- High oxidative stability for long life
- High resistance to sludge and varnish formation
- The ability to dissolve residual hydrocarbon varnish to clean up old machines
- Inherently high viscosity index for shear stability
- Excellent elastomeric seal compatibility
- Low volatility for low makeup rates
- Higher flash point than hydrocarbon fluids
- Higher thermal conductivity than other synthetics
- Very high hydrolytic stability

Recyclable

Sullube is a recyclable material. Check to see if recycling facilities exist in your area by contacting your local Sullair distributor.

Increased operating efficiency

Sullube is the answer to industry's demand for a fluid capable of 8,000 hours of continuous operation without varnishing or causing detrimental side effects to the compressor.

Sullube synthetic fluid has the high oxidative stability necessary for extended life in rotary screw air compressors under a wide range of operating conditions.

Sullube meets the SAE 5W-20 classification. As a result, cold weather startups are easier with Sullube, and less energy is required to operate compressors. In addition, the combination of low viscosity and the high thermal conductivity of Sullube enhances heat transfer in operating compressors, enabling the units to run cooler with lower bearing temperatures.

The high viscosity index of Sullube™ makes it equivalent to a 20-weight fluid at normal compressor operating temperatures, allowing it to be an excellent fluid for hot climates.

Extended life for greater economy, reduced downtime

Sullube™ fluid—which is a synergistic blend of a polyglycol, pentaerythritol ester, and selected inhibitors—is a unique type of synthetic fluid. As a result, it will not form varnish or sludge, a significant improvement over the 1,000-hour life typical of the best hydrocarbon fluids.

This eliminates frequent oil changes, and results in substantial economies with continuously operating compressors. All users can reduce downtime and maintenance costs with Sullube™ fluid.

Inherently high viscosity index

Sullube™ compressor fluid does not require additives to achieve an initially acceptable viscosity/temperature profile. Since no supplemental viscosity improvers are needed, the fluid is shear stable.

As a result, the fluid does not exhibit the rapid and irreversible drop in viscosity during use characteristic of fluids containing shear unstable polymeric additives. In addition, Sullube™ provides an excellent film thickness for lubricating bearings without sacrificing low temperature properties needed for cold weather startup.

Excellent elastomer compatibility

When compared with petroleum and diester-based fluids, Sullube™ offers improved elastomeric seal compatibility. Extensive laboratory testing with Sullube™ shows that most elastomeric seals do not suffer from the shrinkage commonly encountered when using petroleum fluids; nor do they swell excessively, as frequently is the case when diester fluids are used.

Sullube Rotary Screw Compressor Fluid

Elastomer recommendations

Recommended

- Buna N, High and Medium Nitrile
- Viton®
- Teflon®
- Silicone
- Butyl Rubber
- Ethylene Propylene Rubber
- Polyurethane Foams

Acceptable

- Neoprene

Not Recommended

- Buna N, Low Nitrile
- Polyurethane Elastomers

Paint and plastics recommendations

Acceptable

- Modified Alkyds
- Epoxies
- Phenolic Paints

Typical Properties of Sullube™ Viscosity

cst at 212°F (100°C)	7.3
cst at 210°F (98.9°C)	7.5
cst at 104°F (40°C)	39.3
cst at 100°F (37.8°C)	42.9
cst at 32°F (0°C)	330
cst at 0°F (17.8°C)	1500
SSU at 210°F (98.9°C)	50.4
SSU at 100°F (37.8°C)	200
Pour Point F°	-58 F°
	(50°C)
Viscosity index	153
SAE Viscosity Classification	5W-20
Flash Point, F°, C.O.C.	505
Fire Point, F°, C.O.C.	570
Autoignition Temperature, F°	725
Specific Heat, Btu/lb/°F, at 190°	0.497
Thermal Conductivity, Btu/hr/ft/°F	0.088
Density, g/ml, at 25°C (77°F)	0.9826
Ferrous Metal Corrosion, ASTM D-665	No rust
Copper corrosion, ASTM D-130, Rating	1B
Foam Tendency, ASTM D-892	Nil
Rotary Bomb Oxidation Test, ASTM D-2272, Hrs.	>18.0

* Not to be considered as sales specifications. Notice: The information and recommendations herein are, to the best of the Seller's knowledge, accurate and reliable, and Seller's products mentioned are reasonably fit for the purposes so recommended. However, as use conditions are not within its control, Seller does not guarantee results from use of said products, and no warranty, express or implied, is given.

Not Recommended

- Acrylic Paints
- Polyurethane Varnishes
- ABS Plastics
- Polystyrene Plastics
- Polycarbonate Plastics
- PVC Plastic.

Contamination by other fluids

Avoid the addition of detergent oils to Sullube™, because the dispersant/detergent present may lead to sludge formation and foaming under normal operating conditions.

DO NOT MIX LUBRICANTS

Adhesive-backed labels stating, "Fill Only With Sullube™ Fluid" are available from your local Sullair distributor. This label, Part Number 02250069-389, should be placed in clear view near the compressor fill point.

Low volatility means low makeup rates

The excessive fluid required with many synthetic fluids in rotary screw air compressor service is not a problem with Sullube, because of its inherent lower volatility.

Biodegradable

Traces of Sullube™ present in compressor condensate have been shown to be biodegradable by EPA test method 796.3100, with 82% degradation in 28 days in the sewage treatment plant environment. For information on obtaining permits for condensate discharge to municipal sewage systems, contact your Sullair representative or Sullair distributor.

Product safety information
Safe handling

Please consult the current Material Safety Data Sheet for detailed information on the toxicology, regulatory information, and safe handling of Sullube™.

Disposal

When disposing of Sullube™, comply with applicable federal, state, and local regulations. Do not dump any lubricant, including Sullube™, into sewers, on the ground, or into any body of water.

Warning

Sullube™ is not to be used in machines that produce breathing air.

For more information on Sullair products and services, please contact your local Sullair distributor.

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Sullair offers AirMetrix™ solutions that help reduce energy costs and improve productivity by analyzing, managing, and controlling the total compressed air system.



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