

Omega Blower Fluids

Omega SB Synthetic Blower Fluid



Features and Benefits

- High film strength
- Separates rapidly from water
- Superior oxidation stability
- Reduces energy consumption
- Excellent corrosion protection
- Synthetic solvency
- Compatible with other oils
- Environmentally safe
- Also available for Food Grade service
- Suitable for all makes of rotary lobe blowers

Kaeser Omega SB Fluid is a specially formulated, high-temperature synthetic lubricant for all types of rotary lobe blowers. They have been designed to withstand the toughest ambient and operating conditions providing superior protection for your equipment.

High film strength

Omega SB's super tough, tenacious, synthetic oil film protects bearings and gears better than other oils. Most blower oils carry only a 10 to 20 pound maximum load as measured in the

ASTM D 2783 Timken severe load test. In the same test, Omega SB Fluid carries 80 to 100 pounds for maximum bearing protection. Reducing friction and heat greatly extends bearing life and reduces energy consumption. Bearings that run cooler will have less wear and vibration, and will require less maintenance.

Separates rapidly from water

Dry oil is important for long bearing life. For example, only 0.002% water content

reduces bearing life by 50%. Oils that fail to separate completely leave water permanently mixed with the oil. Omega SB separates rapidly from water as proven in ASTM's D 1401 demulsibility test.



Omega rotary lobe blower cutaway

Superior oxidation stability

In the absence of contamination, oxidation is the sole measure of oil life. Omega SB's oxidation stability surpasses that of other blower oils. In the US Steel/ASTM D 2893 oxidation test, Omega SB exceeds the equivalent of 20 years of service life with no oil degradation.

Excellent corrosion protection

Omega SB provides dual corrosion protection. It protects internal components during operation and acts as a preservative oil during shutdown. Omega SB contains synthetic corrosion inhibitors, greatly exceeding ASTM's D 130 corrosion test requirements.

Compatible with other oils

Omega SB is compatible with other oils. It can be mixed with mineral oils and most synthetic oils used in blower applications.

Environmentally safe

The Omega SB Fluids are environmentally safe and meet all EPA and OSHA requirements. All components are TSCA approved and free of toxic materials.

Omega Blower Fluids

Properties	ASTM Test	SB-150	SB-220	SB-320
Lubricant Type	---	PAO	PAO	PAO
ISO Grade/SAE Grade	---	150/40	220/50	320/NA
Kinematic Viscosity: 40°C, cSt	D 445	150	206	308
Kinematic Viscosity: 100°C, cSt	D 445	16.1	20.4	26.3
Viscosity Index	D2270	112	115	112
Flash Point °F	D 92	490	485	495
Pour Point °F	D97	-30	-30	-30
Four Ball Weld Point (kg)	D 2783	315	315	315
Demulsibility: ml oil/H ₂ O/emulsion/min.	D 1401	40/40/0/15	40/40/0/30	40/40/0/30
Specific Gravity, 60°F	D 1298	0.88	0.899	0.898
Maximum Recommended Oil Operating Temperature (°F)	---	250	250	250
Minimum Recommended Oil Operating Temperature (°F)	---	-30	-30	-30

Specifications are subject to change without notice.

- **SB-150** is recommended for low ambient conditions combined with low discharge air temperatures.
 - **SB-220** is recommended for blower discharge temperatures below 300°F.
 - **SB-320** is recommended for blower discharge temperatures above 300°F.
- **Omega synthetic fluids are also available for Food Grade service**
 - **Kaeser Omega SB Fluids can be purchased by the quart, case, or in 5-gallon pails**
 - **Omega SB Synthetic Fluids are suitable for all makes of rotary lobe blowers**

KAESER COMPRESSORS

Built for a lifetime.™

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