SINCE 1839 Schaeffer's SPECIALIZED LUBRICANTS

TECHNICAL DATA

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ISO 9001 CERTIFIED

#2001 Air Tool Oil

Air Tool Oil is a premium quality oil that contains our proprietary Micron Moly® and VarniShield® additives which protects the air tool motor and bearings in a way that no other air tool oil can.

Air Tool Oil is blended from the finest high viscosity index solvent refined, severely hydro-finished 100% pure paraffin base stocks available which provide Air Tool Oil with the following performance characteristics:

- Excellent thermal stability
- Excellent resistance to oxidation and thermal degradation
- Excellent film strength.
- Excellent operating temperature reduction. Superior chemical stability.
- Low volatility.
- Low carbon forming tendencies

Air Tool Oil contains an exceptional anti-wear performance additive system that lasts longer and is further enhanced by the addition of Micron Moly®.

Micron Moly® plates the blades, air motor surfaces and internal pins, bushings and bearings to significantly reduce the friction of the components and provide better sealing between the blades to the cylinder surface. This maintains power and reduces the frequency of oiling. With less frequent oiling there is less oil mist in the air creating a cleaner and healthier environment for the craftsman using the air tools. Less frequent oiling also means that a forgotten oiling cycle will not inflict damage on the tool and a once or twice daily oiling is more likely to take place.

To combat the formation of varnish deposits, a carefully balanced, premium anti-wear additive package, VarniShield® is blended into the Air Tool Oil. VarniShield® is a patented hydraulic fluid additive technology designed to prevent the formation and build-up of varnish deposits, while providing exceptional anti-wear performance, outstanding thermal and oxidation stability, rust and corrosion protection and rapid water separation.

Air Tool Oil provides the following benefits:

- Exceptional and long lasting anti-wear protection to protect system components
- Ability to be used in the gear head of the air tool to lubricate the bevel gears.
- Enhanced thermal and oxidative stability.
- Excellent demulsibility characteristics so water separates quickly and is carried out of the tools through the exhaust port.
- Excellent rust and corrosion protection that extends component life and protects multi-metallurgic components.
- Excellent anti-foaming and air release properties.
- Reduced varnish and deposit formation.
- Improved durability of non-ferrous parts.
- Reduced exhaust filter blockage.
- Improved air tool power with less frequent oiling of the tool.

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Air Tool Oil has additional uses:

- Paper shredders used in offices to lubricate the cutting blades
- Fan motor bearing lubricant. Any motor bearing that uses an oillite type of bushing
- Pin and bushing lube
- Drill bushings to aid in easy removal during change over
- Light tapping and reaming oil (.250 and below taps and reamers in ferrous and nonferrous metals, (stainless steels not recommended.)
- Quill lubricant (oil cups) in drill press and Bridgeport style mills
- Locks and hinges
- Machine tool cabinet fans
- Airline actuators or lubricators used in air lines on machine tools or plant equipment
- Firearms and fishing reels
- Sewing machines
- And other uses you will find around the shop

TYPICAL PROPERTIES

Specific Gravity 60°F/15°C	.8626
Viscosity cSt 40°C (ASTM D-445)	30-40
Viscosity cSt 100°C (ASTM D-445)	5.0-6.0
Viscosity Index (ASTM D-2270)	100
Flash Point °F/°C (ASTM D-92)	410°/210°
Pour Point °F/°C (ASTM D-97)	-10°/-23°
Aniline Point °F/°C (ASTM D-611)	220°/104°
Copper Strip Corrosion Test 3 hrs. (ASTM D-130)	1A
Rust Test (ASTM D-665)	
Procedure A (Distilled Water)	Pass
Procedure B (St Water)	Pass
Four Ball EP Test (ASTM D-2783) Weld Point, kg	160
Four Ball Wear Test (ASTM D-4172) (1hr/40kg/130°C)	
Mean Scar Diameter, mm	0.4
Four Ball Wear Test (ASTM D-4172) (1hr/20kg/130°C)	
Mean Scar Diameter, mm	.27
Falex Continuous Load lbs. (ASTM D-3233) Failure Load, lbs.	1250
Conradson Carbon Residue (ASTM D-189) % Residue	0.3
Foam Tendency (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
FZG Test (ASTM D-5182) Load Stage Pass	12TH
Hydrolytic Stability (ASTM D-2619)	
Copper Wt. Loss mg/cm2	0.0566
Acidity of Water mg/KOH	0
Demulsibility Test (ASTM D-1401) Oil-Water-Emulsion, Time, min	40-40-0, 15
Thermal Stability Test (ASTM D-2070)	
168 hr/135°C, copper/Steel Catalyst)	
Sludge (mg/100ml)	1.8
Copper weight loss, mg/100ml	0.2
Condition of Copper rod	3