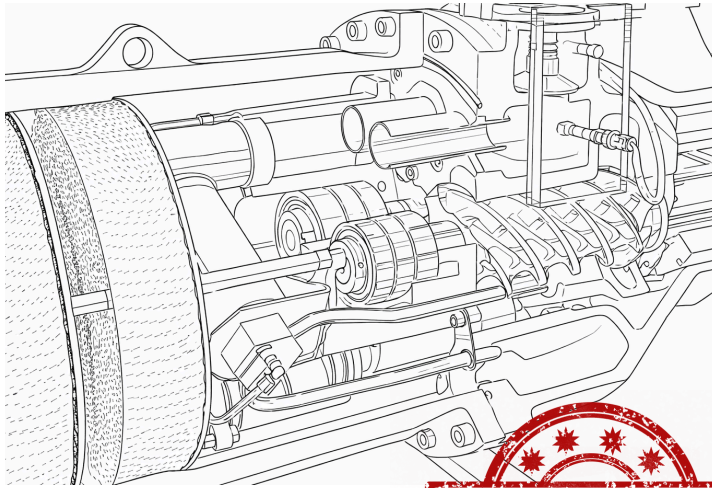


Designed for Hot, Continuous Compressor Operation



12,000 hours

Long Service Intervals

MicroLub AirSyn EST 990 is a fully formulated synthetic ester-based compressor oil designed for a wide range of operating conditions, from light intermittent service to continuous heavy-duty operation. Its advanced ester chemistry provides reliable performance at elevated discharge temperatures, helping maintain clean compressor internals and stable operation. Under normal operating conditions, AirSyn EST 990 supports extended oil drain intervals of up to 12,000 hours. When combined with a comprehensive fluid monitoring and maintenance program, further service life extension may be achievable, subject to system condition and operating environment.

Exceptional oxidation and thermal stability

MicroLub AirSyn EST 990 exhibits excellent oxidation and thermal stability, enabling reliable performance under sustained high operating and discharge temperatures. The synthetic ester base oil resists chemical breakdown, minimizes acid formation, and limits carbon and varnish deposits. This helps maintain fluid cleanliness, protects critical compressor components, and supports extended service intervals in continuous-duty industrial applications.

MicroLub® AirSyn EST 990 is a premium synthetic ester-based compressor fluid engineered for rotary screw and rotary vane air compressors operating under continuous duty in hot, dusty, and demanding environments. Its advanced ester chemistry delivers excellent thermal and oxidation stability, strong natural detergency, and high lubricity, helping control deposit formation and maintain clean compressor internals. AirSyn EST 990 supports reliable compressor operation, stable performance at elevated discharge temperatures, and extended service life in industrial installations common to Middle East conditions.

Preventing from Varnish Build ups

MicroLub AirSyn EST 990 features natural ester detergency that actively keeps compressors clean by preventing varnish, carbon, and deposit buildup. This clean-running chemistry helps maintain smooth rotor and vane movement, improves efficiency, and reduces maintenance interruptions. By minimizing internal deposits, AirSyn EST 990 supports reliable, long-term compressor performance in demanding, high-temperature operating environments.

Applications.

- Rotary screw air compressors
- Rotary vane air compressors
- Continuous-duty industrial compressed air systems
- Cement plants and clinker processing facilities
- Steel mills and aluminium processing plants
- Mining and quarry operations
- Oil & gas facilities and refineries
- Manufacturing plants operating in hot climates
- Dust-intensive industrial environments
- Compressor installations with elevated discharge temperatures

Resistance to Chemical and Thermal loads

Excellent resistance to chemical and thermal breakdown enables MicroLub AirSyn EST 990 to maintain fluid integrity under sustained high operating temperatures. The stable ester formulation resists oxidation, thickening, and degradation, helping preserve lubricating performance, reduce deposit formation, and support reliable compressor operation during extended service intervals.

Anti Foam

Anti-foaming characteristics help ensure stable and efficient compressor operation by preventing excessive air entrainment and foam formation under continuous-duty conditions. This supports consistent lubrication, reliable pressure delivery, and smooth system response, while reducing the risk of erratic operation, noise, and performance loss in demanding industrial compressor applications.

Typical Properties

ISO Grade	22	32	46	68
Viscosity (cSt@40C) (ASTM D445)	23.5	32.5	43.1	63.5
Viscosity (cSt@100C) (ASTM D445)	4.8	5.5	6.6	8.5
Viscosity Index	128	105	105	104
Flash point ^o	202	210	214	222
Pour point ^o (ASTM D97)	-58	-47	-40	-40
Specific severity (g/ml)	0.95	0.893	0.884	0.89
Colour	Amber			

Key Features

- Non-carbonizing formulation helps minimize carbon and deposit formation
- High polarity ester chemistry promotes strong adhesion to metal surfaces
- Effective anti-wear protection for critical compressor components
- Low-foaming characteristics ensure stable and efficient operation
- High resistance to chemical degradation under severe operating conditions
- Excellent thermal stability for reliable performance at elevated temperatures

Flushing Instructions

Proper flushing is recommended when converting from mineral or other synthetic compressor oils to MicroLub AirSyn EST 990 to ensure optimum performance and service life.

PERFORMANCE SUMMARY (ISO VG 46)		
Conradson Carbon Residue (max 3%)	DIN 51352	1.7
Total Sludge, %	IP 280	0.02
Volatile Acidity, mg/g		0.05
Soluble Acidity, mg/g		0.21
Total Oxidation Product, %		0.12
Corrosion-Oxidation Stability Increase in Neutrilation Number,mg KOH/g	FTM	21
RBOT Oxidation (minutes to 25psi pressure drop)	ASTM D2272	1800
Oxidation Stability-Hours to 2.0mg KOH/g acid number	ASTM D943	8000+
Copper Corrosion	ASTM D130	1b
Steel Corrosion Procedure A / B	ASTM D665	Pass
Water Separability	ASTM D1401	40-40-0(15)
Foam 1/2/3		0/0/0
Wear,Four Ball, Scar, mm Conditions-40kg, 1800rpm, 130F, 1hr	ASTM D4172	0.4

MicroLub AirSyn EST 990 is formulated to support reliable operation in high-temperature compressor applications and enables extended oil drain intervals of up to 12,000 operating hours under normal conditions. When supported by a comprehensive fluid monitoring and maintenance program, service life may be further extended, subject to operating conditions and system cleanliness.

Storage

- Store in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and open flames.
- Keep containers tightly sealed when not in use to prevent contamination with dust, water, or other foreign materials.
- Do not store near oxidizing agents, strong acids, or alkalis.
- Recommended storage temperature: 5°C to 40°C (41°F to 104°F).
- Protect from freezing and excessive heat; avoid prolonged exposure above 50°C (122°F).
- Rotate stock on a first-in, first-out (FIFO) basis to ensure product quality and shelf life.
- Shelf life: 36 months in unopened original packaging under recommended storage conditions.

Pack Size : 20L Pails, 60L Kegs, 200L Drums, 1000L Totes



MicroLub is a proprietary brand of MicroFusion International Inc

