

A N C I L L A R Y

A E O N

compressor lubricants



P R O D U C T S



PROTECT YOUR INVESTMENT...

With Gardner Denver AEON Compressor Lubricants

It is a known fact that a compressor's lubricant is its life-blood, its basic source of strength and vitality. So why jeopardize the efficiencies and longevity of your compressor with just any "oil"?

Gardner Denver, a name synonymous with quality, performance and dependability, offers the very best in compressor lubrication technology - AEON Lubricants. AEON Lubricants are specially formulated to combat the harsh elements of compression while maximizing efficiencies and equipment longevity.

Are you experiencing any of the following?

- operating in extreme temperatures or severe air intake environments
- unusually high oil carry-over
- high compressor maintenance/preventive maintenance costs
- degradation of air system seals/seal material

Some or all of these real life situations can result in:

1. Breakdown of the lubricant and its ability to protect the compressors critical components i.e. bearings
2. Oxidation/varnishing
3. Increased energy consumption
4. Compressor failure
5. Increased make-up, condensate and used oil disposal and maintenance costs
6. Swelling or cracking of air system seals/seal material

To avoid these costly and potentially catastrophic situations, contact your local, authorized Gardner Denver distributor immediately. Let him assist you in identifying the proper AEON lubricant that fits your special needs. Also, ask him about our FREE AEON oil analysis program!

AEON Lubricants...

simply the best protection of your investment.

AEON

Synthetic

AEON 9000SP

- Superior Protection synthetic lubricant
- Increased machine operating efficiencies
- Formulated for excellent condensate oil/water separation

AEON 9000SP is a Superior Protection PAO (polyalphaolefin)/MFSE (multi-functional synthetic ester) blend formulated with proven additive components. The result is superior thermal and oxidative stability.

AEON 9000SP is ideal for applications which require extended operating intervals. It is formulated for demulsibility and optimum viscosity over the compressors entire operating temperature range.

Lab life and multiple field applications have proven AEON 9000SP to provide superior service life, while minimizing oil carry over and unit maintenance.

AEON 6000FG

- Food grade extended life lubricant
- Minimizes maintenance and downtime
- Improved lubrication at high and low temperatures

AEON 6000 Food Grade is a PAO (polyalphaolefin) blend, authorized by the USDA as an H-1 approved lubricant for use in federally inspected meat and poultry plants. It complies with FDA 21CFR 178.3570—lubricants for incidental food contact.

AEON 6000 Food Grade is an extended life lubricant formulated to reduce maintenance intervals and extend compressor life.

AEON BIO

- Long life, polyolester synthetic lubricant
- Non-hazardous, BIO-degradable, demulsible
- Maximum operating efficiencies realized

AEON BIO is a custom blended polyolester (POE), long life synthetic lubricant, readily bio-degradable according to CEC Test L-33-T-82.

AEON BIO is especially advantageous in applications where it is exposed to elevated temperatures for extended periods of time. AEON BIO resists forming sludge and varnish even under these extreme conditions.

AEON BIO is formulated to be recyclable with standard mineral oil recycling systems and technology. Also, none of the ingredients are found on OSHA's list (29CFR 1910.1200) of hazardous materials.

Semi-Synthetic

AEON 4000

- Extended life lubricant; demulsible formulation
- Minimizes maintenance and downtime
- Characteristics of a synthetic in a petroleum blend

AEON 4000 is a semi-synthetic, severely hydrotreated lubricant formulated with a unique patented anti-oxidant package.

It offers outstanding thermal and oxidation stability, while minimizing varnish formation. Life tests indicate a service interval up to three times longer than that of comparable petroleum based lubricants, depending on individual compressor characteristics and ambient conditions.

AEON 2000

- Hydrocarbon based, semi-synthetic lubricant
- Excellent demulsibility
- Maximizes compressor efficiency while minimizing oil carry over

AEON 2000 is a blend of highly purified hydrocarbon base stocks and specially blended additives which provide economical operating and service life in rotary screw compressor systems.

AEON 2000 offers superior oxidation stability, viscosity control, condensate demulsibility and low foaming tendencies.

This semi-synthetic fluid is an excellent alternative to automotive lubricants, industrial hydraulic and turbine oils.

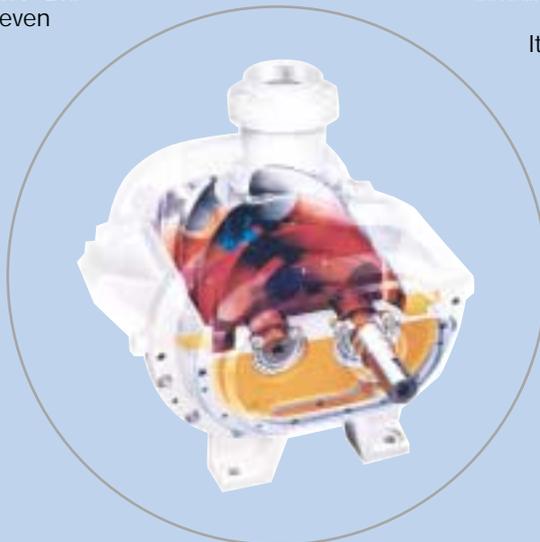
Petroleum

AEON 800

- Formulated specifically for rotary screw compressors
- Reliable
- Economical

AEON 800 is formulated from special high quality base oils combined with viscosity index improvers, antioxidants, anti-wear agents, detergents and defoamants.

Its high viscosity index and low pour point ensure good oil flow during cold starting while maintaining food lubrication under high ambient conditions.



RECIPROCATING

Synthetic

AEON AC SY

- Extended life, full synthetic lubricant
- Extended valve life, as carbon buildup is virtually eliminated
- Reduced oil carry over

AEON AC SY is a premium grade diester lubricant which leaves virtually no carbon deposits. Excellent for use in 100% duty cycle applications.

High viscosity index offers superior performance in both high and low temperature applications.

Food Grade

AEON AC FG

- Food grade, extended life reciprocating lubricant
- Excellent demulsibility for easy condensate separation.

AEON AC FG is authorized by the USDA as an H-1 approved lubricant suitable for incidental food contact.

Semi-Synthetic

AEON 5000

- Long-life semi-synthetic lubricant
- Minimizes carbon buildup
- Maximizes compressor efficiency, minimizes oil carry over and maintenance

AEON 5000 is a long-life, premium grade, semi-synthetic lubricant that provides extended time intervals between changes. It is recommended for use in industrial applications where ambient temperatures can be below -20°F.

AEON 5000 reduces lubricant consumption and carry over while maintaining aftercooler cleanliness and efficiency. Valve carbon buildup is virtually eliminated, resulting in significant maintenance savings.

Petroleum

AEON 500

- Enhanced lubricity and anti-wear properties
- Minimizes carbon and residue buildup
- Excellent compressor system compatibility

AEON 500 is a premium grade, non-detergent, petroleum lubricant. It is specifically blended and recommended for use in industrial reciprocating compressors' crankcases and cylinders.

AEON 500's high viscosity index provides adequate lubrication over a wide operating temperature range. Rust inhibitors protect crankcase lubricated components, while oxidation inhibitors prevent oil degradation during normal service intervals.

AEON 500's non-detergent properties and low vapor pressure leave less carbon residue on valves and internal cooler surfaces than conventional mineral oils.



AEON LUBRICANTS

AEON LUBRICATION SELECTION CHART

Lubricants	Compressor Type	Suggested Maximum Service Interval*
Petroleum Based		
AEON 500	Reciprocating	Consult individual compressor service manual
AEON 5000	Reciprocating	Consult individual compressor service manual
AEON 800	Rotary screw	2000 hours
AEON 2000	Rotary screw	2000 hours
AEON 4000	Rotary screw	4000 hours
Synthetic		
AEON AC SY	Reciprocating	Consult individual compressor service manual
AEON AC FG	Reciprocating	Consult individual compressor service manual
AEON 6000FG	Rotary Screw	4000 hours
AEON BIO	Rotary screw	8000 hours
AEON 9000SP	Rotary screw	8000 hours

*Recommended service interval recommendation for 1) clean ambient conditions, 2) filter and separator changes as required in compressor service and operating manual, and 3) "normal" compressor temperature conditions. NOTE: Laboratory analysis of compressor fluids should be used to determine lubricant service life.

Synthetic Lubricant Compatibility – AEON Lubricants are formulated to be compatible with materials found in air compressor systems. These compatible materials include: Viton®*, High Nitrile Buna N, Teflon®*, epoxy paint, oil resistant alkyd, nylon Delrin®* and Celcor®**.

Exceptions: AEON 9000SP is NOT compatible with PVC. AEON BIO is NOT compatible with Low Nitrile Buna, acrylic paint, polystyrene, PVC or ABS. AEON 5000 is

NOT compatible with those materials listed and neoprene, SBR rubber or lacquer. AEON 2000, AEON 4000, AEON 6000FG and AEON 9000SP are NOT compatible with SBR rubber.

AEON Lubricants do not contain PCB's.

AEON products, assessed in accordance with OSHA 29 CFR 1910.1200, are determined not to be hazardous. Unused products are not specifically listed by the EPA as hazardous waste (40 DTR, Part 261D). However, used products may be regulated.

MATERIAL SAFETY DATA (MSDS) and Material Compatibility Sheets are available from your authorized Gardner Denver Distributor.

*Registered trademark of E.I. DUPONT de Nemours.
**Registered trademark of Celanese Corp.

TYPICAL PROPERTIES/CHARACTERISTICS OF AEON COMPRESSOR LUBRICANTS

Properties/Viscosity	AEON 500	AEON 5000	AEON AC FG	AEON AC SY
Reciprocating				
@ 40C, cSt	100.9	67	100.3	96.4
@ 100C, cSt	11.2	8.3	13.7	9.3
@ 100F, SUS	527	325	516	509
@ 210F, SUS	65	52	74.4	57.8
Pour Point F/C	-2 (-18)	0 (-18)	-55 (-22)	-20 (-28.9)
Flash Point F/C	500 (260)	457 (236)	521 (271)	515 (268)
Demulsibility*	43/37/0 15 min.	42/38/0 15 min.		

Properties/ Viscosity	AEON 800	AEON 2000	AEON 4000	AEON 6000FG	AEON 9000SP	AEON BIO
Rotary Screw						
@ 40C, cSt	96.4	46	46.6	46.9	49.01	43.5
@ 100C, cSt	9.3	6.65	7.0	7.9	7.83	7.3
@100F, SUS	509	237.6	217	239	251	222
@210F, SUS	57.8	48.5	48.9	52.8	52.5	50.8
Pour Point F/C	-20 (-28.9)	-27 (-33)	-27 (33)	-76 (-60)	-65 (-54)	-40 (-40)
Flash Point F/C	515 (268)	441 (227)	475 (246)	475 (246)	500 (260)	545 (285)
Demulsibility*		< 5 min.	< 5 min.	< 1 min.	< 2 min.	< 2 min.

*Demulsibility ratings based on test standard ASTM D1401.

AEON COMPRESSOR FLUIDS

Reciprocating Compressor Lubricants	Package Size	Part Number
AEON AC SY Diester based extended life synthetic lubricant	12 – 1 Qt. Case	28H216
	5 Gal.	28H214
AEON AC FG Polyalphaolefin (PAO) based H-1 Food Grade, extended life synthetic lubricant. Authorized by USDA for incidental contact with food	12 – 1 Qt. Case	28H219
	5 Gal.	28H217
AEON 5000 Diester blended long life semi-synthetic lubricant	5 Gal.	28G14
	55 Gal.	28G15
AEON 500 Petroleum based, lubricant formulated specifically for use in reciprocating compressors	6 – 1 Gal.	28G22
	5 Gal.	28G19
	55 Gal.	28G13

Rotary Screw Compressor Lubricants	Package Size	Part Number
AEON 9000SP Polyalphaolefin (PAO) based synthetic premium extended life lubricant	5 Gal.	28H109
	55 Gal.	28H110
AEON BIO Polyolester based, bio-degradable extended life synthetic	5 Gal.	28H39
	55 Gal.	28H103
AEON 6000FG Polyalphaolefin (PAO) based H-1 Food Grade, extended life synthetic lubricant. Authorized by USDA for incidental contact with food	5 Gal.	28H39
	55 Gal.	28H35
AEON 4000 Hydrocarbon based semi-synthetic extended life lubricant	5 Gal.	28H57
	55 Gal.	28H36
AEON 2000 Hydrocarbon based semi-synthetic rotary screw lubricant	5 Gal.	28G36
	55 Gal.	28G37
AEON 800 Petroleum based lubricant formulated specifically for use in rotary screw compressors	5 Gal.	28G7
	55 Gal.	28G8

CONVENIENT PACKAGE SIZES

available from your authorized Gardner Denver Distributor

A national network of factory trained Gardner Denver distributors is ready to assist you with AEON lubricants for all your compressor needs — and with Genuine Parts for your Gardner Denver and Joy compressors.

AEON lubricants...designed for maximum reliability in air compressor equipment.

- Factory Recommended
- Factory Tested
- Factory Approved

See your authorized Gardner Denver Distributor for a NEW Level of Equipment and Parts Integrity, Quality and Service.

**Gardner
Denver**



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