

**Gardner**  
**Denver**

# Gardner Denver Lubricants Solutions

Reliable & durable under pressure



**Your Liquid Asset**

2021 edition



# Protect and



## Protect and optimise **your equipment**

**Gardner Denver lubricants** are designed specifically with Gardner Denver machines in mind.

The exhaustive testing programmes are developed solely to create a superior product that you can have complete confidence in.

They deliver levels of performance that meet or exceed any published standards so that we can truly say that:

**Gardner Denver lubricants are your liquid asset.**





# optimise



Rotary Compressors and pumps don't all have the same reaction towards lubricants. The temptation to source cheaper alternatives can often lead to the wrong buying decision being made, where quality and performance are not considered resulting in poor performance, increased energy consumption and costly repairs.

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

Gardner Denver warranty lubricants support the innovative extended warranties and their use validates the machine owners warranty entitlement, providing many years of additional peace of mind when compared to the standard warranty period. No other lubricant can provide this protection for Gardner Denver compressors and their owners.

We give you some good reasons to optimise the performance of your compressors and pumps with lubricants from Gardner Denver.

## Your benefits

- Reduced downtime
- Higher compressor availability
- Reduce cost for replacement parts
- Reduce Maintenance Cost
- Longer oil life
- Reduce lubricant consumption
- Save Energy
- Increase Operating safety
- Help protect the environment



## Using the wrong or inferior lubricants

- Breakdown of the lubricant and its ability to protect the compressors critical components i.e. bearings
- Oxidation/varnishing
- Increased energy consumption
- Compressor failure
- Increased condensation
- 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 them assist you in identifying the proper Gardner Denver lubricant that fits your special needs.

**Gardner  
Denver**

AUTHORISED PARTNER

# Lubricate



## Lubricants explained

### Lubricants: 4 Basic needs

#### 1 To Cool

To help maintain proper operating temperatures in the compressor

#### 2 To Clean

To migrate the particles and impurities from the compressor into the filter for removal

#### 3 To Seal

Creates a barrier between the open gaps to maintain compression

#### 4 To Lubricate

Lubricating all moving parts to limit wear and high temperatures caused by friction

#### Basic Needs:

##### Cooling & Cleaning

- Heat sources
  - Heat of compression
  - System friction
- Lubricant flowing over hot areas carries away heat
- Lubricant separates metal parts to reduce friction
- Cleaning
  - Particles from contaminants
  - Particles from wear debris
  - Particle removal from tribological contacts and oil channels for filtration
- Cleaners for sludged and varnished systems

#### Basic Needs:

##### Sealing & Lubricating

- Lubricants seal the gaps between parts
  - Maintain compression
- Lubricating moving parts
  - Limiting wear
- Prolonged equipment life
- Increased system uptime
  - Reducing friction
- Keeps temperatures low
- Potential to reduce power consumption

#### What to look for

##### in a lubricant

- Suitable lifetime / change interval
- Thermal stability
  - Does not break down at high temperatures
- Resistance to oxidation
  - Strong molecular structure that resist attack from oxidizers and free radicals
- Lubricity
- Synergy with additives
  - Good solvency
  - Works in conjunction with additives. Does not compete with additives



# Clean



## Lubricants explained Basefluid Definitions

- Mineral Oil
  - Solvent Refined Oil from Crude
- Semi-Synthetic
  - Super Refined, Chemically Altered Oil
- Synthetic
  - Man Made Oil, Does Not Come from Crude
- Synthetic Blend
  - Blend of Synthetic and Semi-Synthetic Oil
- Non Synthetic
  - Group II Mineral Oil
- Synthetic
  - Poly Alfa Olefin (PAO)
  - Dibasic Ester (Diester)
  - Polyol Ester (POE)
  - Polyalkylene glycol (PAG)

### Advantages

### Disadvantages

#### Mineral Group II

• Lower cost	• Short life
• Good water separation	• Creates sludge
	• Cannot be used at high temps

#### Polyalphaolefin (PAO)

• Thermally stable	• Higher cost
• Longer life than mineral oil	• Creates sludge and varnish towards end of life
• Excellent water separation	
• Resistance to thermal breakdown	
• Synergistic with additives	
• Low volatility	

#### Diester/Polyol Ester (POE)

• Long life	• Higher cost
• Thermally stable	• Poor water separation
• Does not form sludge or varnish	
• High temperature applications	
• Good solvency	
• Low volatility	
• Functions as a better seal swell vs PAO	

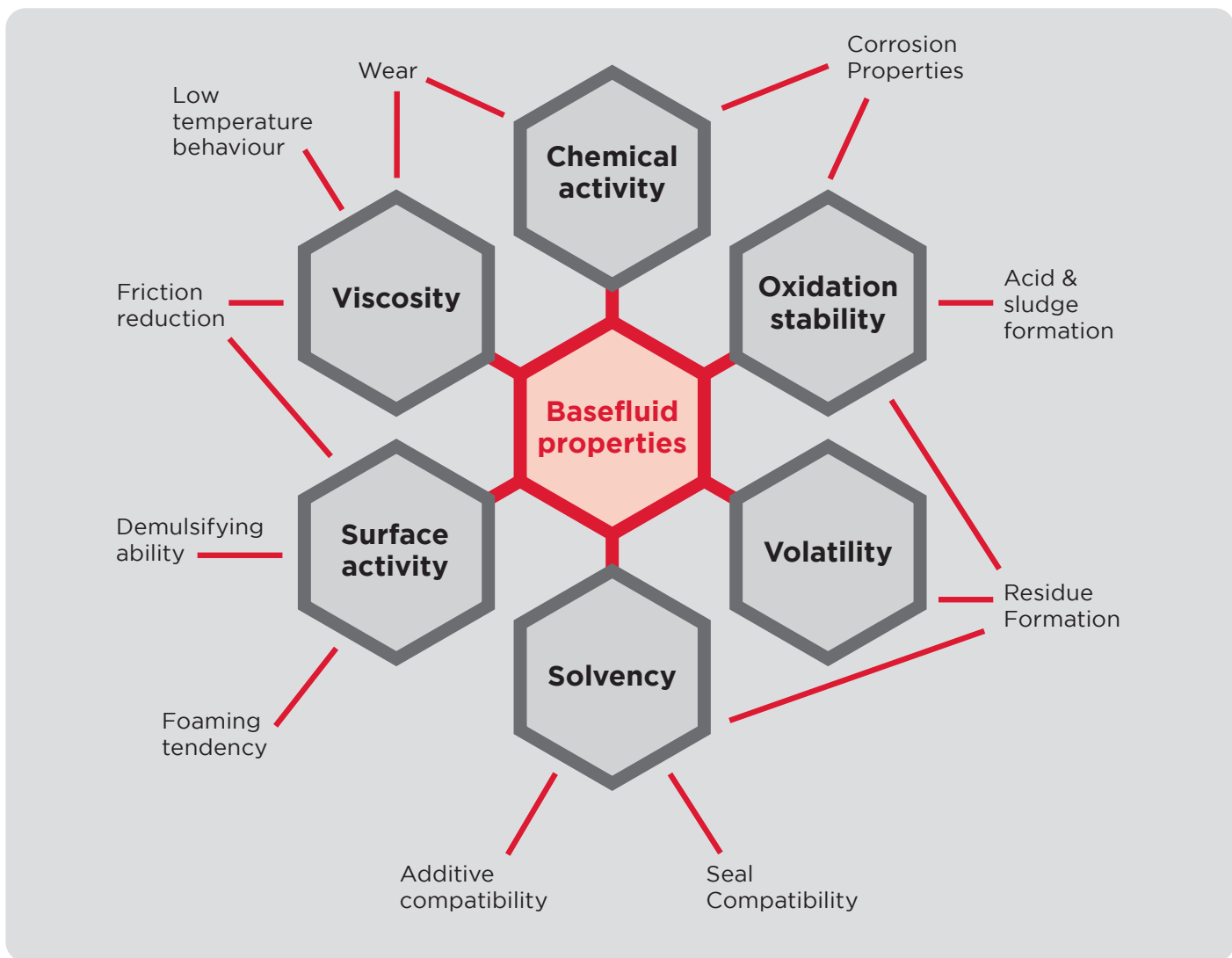
#### Polyalkylene glycol (PAG)

• High viscosity index	• Forms acid when it begins to degrade
• Excellent thermal stability	
• Does not form varnish	• High cost



## Lubricants explained

# Basefluid properties





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- Synthetic Foodgrade Eco-Lube 100
- Synthetic vacuum pump Oxy-Lube 100

# FluidForce Lubricants: CompAir Rotary Screw Compressors



	Mineral		Synthetic
	FLUIDFORCE warranty Lubricant	FLUIDFORCE Universal Lubricant	AEON "S"
	Superior Protection exceeding industry standard	Excellent Protection meeting industry standard	Superior Protection synthetic lubricant
	Low oil carry-over and foaming	Economical	Increased machine operating efficiencies
	Superior water separation and air release	Excellent alternative for older compressors with low annual operating hours	Formulated for excellent condensate oil/water separation
	FLUIDFORCE Screw Warranty Lubricant (SCWOBG2) has been developed to resist formation of deposits on rotating components in screw compressors to maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. With many years of successful application, FluidForce Screw Warranty Lubricant helps provide effective protection of internal metal surfaces from corrosion and wear. It contains an advanced ashless anti-wear system to help prolong the life of critical parts. FluidForce Screw Warranty Lubricant is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions. In addition, FluidForce Screw Warranty Lubricant has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.	CompAir FLUIDFORCE UNIVERSAL screw lubricant is an excellent performing lubricant that provides industry standard protection and performance in most manufacturing and many mobile equipment operations. It is designed to resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your screw compressor.	AEON "S" is a Superior Protection PAO (poly-alphaolefin)/MFSE (multi-functional synthetic ester) blend formulated with proven additive components. The result is superior thermal and oxidative stability. AEON "S" 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 "S" to provide superior service life, while minimizing oil carry over and unit maintenance.
<b>Extended Warranty compliant</b>	Yes	No	Yes
<b>Maximum Life expectancy (Hours)</b>	4000	2000	8000
<b>Recommended Service intervals</b>	4000 hours or 12 months **	2000 hours or 12 months **	8000 hours or 24 months **
<b>Properties/viscosity</b>			
<b>@ 40 °C, cSt</b>	46	46	46
<b>@ 100 °C, cSt</b>	6,9	7	7,8
<b>Pour Point °C</b>	-30	-39	-48
<b>Flash Point °C</b>	230	230	230
<b>Demulsibility*</b>			< 1 min
<b>Water separability @ 54 °C*</b>	15 mins		10 mins
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>5 Liters</b>	SCWOBG2-5	SCST2000-5	A92130520
<b>20 Liters</b>	SCWOBG2-20	SCST2000-20	A92130530
<b>209 Liters</b>	SCWOBG2-209	SCST2000-209	A92130540
<b>Oil Analysis kit</b>			ZS1213336

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, whichever ever comes first and 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 – 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

Note: Foodgrade lubricants are not compatible with SBR rubber



## Flushing / Cleaner

	AEON SCFG8000 Foodgrade	Compressor Flushing Oil
	Food grade extended life lubricant	Cleans machine of varnish deposits
	Superior dispersing characteristics for extending drain Intervals	Removes Residual amounts of old oil
	Resists the formation of foam, sludge, varnish and corrosive acids	Saves energy
	Exceptional lubrication at high and low temperatures. Superior rust and oxidation stability for long, trouble-free life	Extends life of equipment
	<p>AEON SCFG8000 is a custom-compounded compressor fluid specifically formulated for CompAir use only on rotary screw air compressors. Critical performance features include low fluid volatility, enhanced water demulsibility, superior hydrolytic stability, improved sealing effect, reduced friction, enhanced wear protection and superior fluid dispersing characteristics to eliminate "sludging" and deposit-forming tendencies.</p> <p>AEON SCFG8000 is fully compliant with 21 CFR 178.3570 and meets the requirements of USDA/NSF H1 (Lubricants with Incidental Food Contact) AEON SCFG8000 is compounded with a blend of next-generation, 100% food-grade synthetic base oils and advanced additive technologies to provide superior performance over competitive lubricating oils. This custom formulation, based on extensive research and development, provides AEON SCFG8000 with an optimized combination of anti-wear agents, rust inhibitors, and antioxidants that demonstrates a synergistic performance advantage over traditional air compressor fluids.</p>	is based on alkylbenzenes, which is highly polar and hence has excellent solvency characteristics. Adding Shell Refrigeration Oil S4 FR-V to the used lubricant can significantly reduce oxidation-by-products and deposits in your system. The cleaning effect depends on cleaning fluid concentration (~10%), the circulation time (3-8 hours) and the dirt load of the system.
<b>Extended Warranty compliant</b>	Yes	N/A
<b>Maximum Life expectancy (Hours)</b>	8000	500
<b>Recommended Service intervals</b>	8000 hours or 24 months **	
<b>Properties/viscosity</b>		
<b>@ 40 °C, cSt</b>	48.5	
<b>@ 100 °C, cSt</b>	7,7	
<b>Pour Point °C</b>	-49	
<b>Flash Point °C</b>	264	
<b>Demulsibility*</b>		
<b>Water separability @ 54 °C*</b>	20 mins	
	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>5 Liters</b>	ZS1216903	
<b>20 Liters</b>	ZS1216945	A92130130
<b>209 Liters</b>	ZS1216946	
<b>Oil Analysis kit</b>	ZS1213336	

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, whichever ever comes first and 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 – 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

Note: Foodgrade lubricants are not compatible with SBR rubber

# AEON Lubricants:

## Gardner Denver Rotary Screw Compressors



	Mineral		Synthetic	
	AEON3000SP	FLUIDFORCE Universal Lubricant	AEON "S"	AEON9000TH
	Superior Protection exceeding industry standard	Excellent Protection meeting industry standard	Superior Protection synthetic lubricant	Exceptional thermal stability
	Low oil carry-over and foaming	Economical	Increased machine operating efficiencies	Completely demulsible
	Superior water separation and air release	Excellent alternative for older compressors with low annual operating hours	Formulated for excellent condensate oil/water separation	Long life at high temperature
	AEON3000SP Screw Warranty Lubricant has been developed to resist formation of deposits on rotating components in screw compressors to aintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. With many years of successful application, AEON3000SP Screw Warranty Lubricant helps provide effective protection of internal metal surfaces from corrosion and wear. It contains an advanced ashless anti-wear system to help prolong the life of critical parts. AEON3000SP Screw Warranty Lubricant is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions. In addition, FluidForce Screw Warranty Lubricant as excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.	FLUIDFORCE UNIVERSAL screw lubricant is an excellent performing lubricant that provides industry standard protection and performance in most manufacturing and many mobile equipment operations. It is designed to resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your screw compressor.	AEON "S" is a Superior Protection PAO (poly-alphaolefin)/MFSE (multi-functional synthetic ester) blend formulated with proven additive components. The result is superior thermal and oxidative stability. AEON "S" 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 "S" to provide superior service life, while minimizing oil carry over and unit maintenance.	AEON9000TH is a poly-alphaolefin (PAO)/MFSE synthetic ester custom blend formulation for proven performance. AEON9000TH is an extended life lubricant for rotary screw compressors with oil injection operating under harsh service conditions with high compressor temperatures. It is ideal for rotary screw air compressor applications where oil is exposed to high operating temperatures needed to prevent condensation in high humidity applications. This lubricant may not be appropriate in applications with low ambient temperatures.
<b>Extended Warranty compliant</b>	Yes	No	Yes	Yes
<b>Maximum Life expectancy (Hours)</b>	4000	2000	8000	8000
<b>Recommended Service intervals</b>	4000 hours or 12 months **	2000 hours or 12 months **	8000 hours or 24 months **	8000 hours or 24 months **
<b>Properties/viscosity</b>				
<b>@ 40 °C, cSt</b>	46	46	46	67
<b>@ 100 °C, cSt</b>	6,9	7	7,8	9,4
<b>Pour Point °C</b>	-30	-39	-48	-42
<b>Flash Point °C</b>	230	230	230	252
<b>Demulsibility*</b>			< 1 min	< 1 min
<b>Water separability @ 54 °C*</b>	15 mins		10 mins	
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>5 Liters</b>	VP1149835	SCST2000-5	A92130520	
<b>20 Liters / 5 Gallons</b>	VP1149836	SCST2000-20	A92130530	28H286 (Gallons)
<b>209 Liters / 55 Gallons</b>	VP1149837	SCST2000-209	A92130540	28H270 (Gallons)
<b>Oil Analysis kit</b>			ZS1213335	ZS1213335

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, which ever comes first and 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 – 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

Note: AEON9000TH is not compatible with PVC. Foodgrade lubricants are not compatible with SBR rubber.



### Flushing / Cleaner

	AEON SCFG8000 Screw Foodgrade	Compressor Flushing Oil
	Food grade extended life lubricant	Cleans machine of varnish deposits
	Superior dispersing characteristics for extending drain Intervals	Removes Residual amounts of old oil
	Resists the formation of foam, sludge, varnish and corrosive acids	Saves energy
	Exceptional lubrication at high and low temperatures. Superior rust and oxidation stability for long, trouble-free life	Extends life of equipment
	<p>AEON SCFG8000 is a custom-compounded compressor fluid specifically formulated for CompAir use only on rotary screw air compressors. Critical performance features include low fluid volatility, enhanced water demulsibility, superior hydrolytic stability, improved sealing effect, reduced friction, enhanced wear protection and superior fluid dispersing characteristics to eliminate "sludging" and deposit-forming tendencies.</p> <p>AEON SCFG8000 is fully compliant with 21 CFR 178.3570 and meets the requirements of USDA/NSF H1 (Lubricants with Incidental Food Contact) AEON SCFG8000 is compounded with a blend of next-generation, 100% food-grade synthetic base oils and advanced additive technologies to provide superior performance over competitive lubricating oils. This custom formulation, based on extensive research and development, provides AEON SCFG8000 with an optimized combination of anti-wear agents, rust inhibitors, and antioxidants that demonstrates a synergistic performance advantage over traditional air compressor fluids.</p>	<p>CompClean II is approved to be used as the compressor lubricant for up to 500 hours. CompClean II is not an FDA 21 CFR compliant lubricant. In instances where enforcement of FDA 21 CFR is required steps should be taken to keep the compressor discharge air out of the production air system during the flushing process. This can be done by use of a customer provided bypass that prevents the potential of incidental contact (H1) in and around food processing areas. Steps must be taken by distributor or end user to watch for over temperature operation during the flush procedure. As varnish is dissolved and dislodged from the compressors internal surfaces several oil filter changes may be necessary during the flushing process.</p>
<b>Extended Warranty compliant</b>	Yes	N/A
<b>Maximum Life expectancy (Hours)</b>	8000	500
<b>Recommended Service intervals</b>	8000 hours or 24 months **	
<b>Properties/viscosity</b>		
@ 40 °C, cSt	48.5	
@ 100 °C, cSt	7,7	
<b>Pour Point °C</b>	-49	
<b>Flash Point °C</b>	264	
<b>Demulsibility*</b>		
<b>Water separability @ 54 °C*</b>	20 mins	
	Part Numbers	Part Numbers
<b>5 Liters</b>	ZS1216903	
<b>20 Liters / 5 Gallons</b>	ZS1216945	A92130130
<b>209 Liters / 55 Gallons</b>	ZS1216946	
<b>Oil Analysis kit</b>	ZS1213335	

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, whichever ever comes first and 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 – 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

# FluidForce Lubricants: hydrovane Rotary Vane Compressors



**Mineral**

**Synthetic**

**Foodgrade**

**Synthetic lubricant  
for Gas applications**

	FLUIDFORCE Vane warranty Lubricant	FluidForce VANE HPO	FLUIDFORCE vane foodgrade (VAFFC2000)	FLUIDFORCE Vane Gas Compressor Lubricant
	Superior Protection exceeding industry standard	Superior Protection synthetic lubricant	Food grade H1 approved – Halal and Kosher certified life lubricant	Formulated on the basis of especially highly refined base oils; reliable use at high thermal stress without the formation of damaging residues.
	Low oil carry-over and foaming	Increased machine operating efficiencies	Reduced varnish lacquering and deposits	May be used for the compression of hydrocarbon gases like methane, ethane, propane, propene or natural gas.
	Superior water separation and air release	Formulated for excellent condensate oil/water separation	Excellent anti wear properties, excellent water separation, rust and oxidation inhibited	Very low Evaporation tendency and low coking
	FLUIDFORCE Vane Warranty Lubricant (VAWO2000GT) has been developed to resist formation of deposits on rotating components in vane compressors to maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. With many years of successful application, FluidForce Vane Warranty Lubricant helps provide effective protection of internal metal surfaces from corrosion and wear. It contains an advanced ashless anti-wear system to help prolong the life of critical parts. FluidForce Vane Warranty Lubricant is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions. In addition, FluidForce Vane Warranty Lubricant has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.	FluidForce HPO is an advanced synthetic air compressor oil incorporating a unique high performance additive system. It is designed to deliver the highest performance lubrication of rotary sliding vane air compressors. It uses an advanced additive system to provide excellent protection and performance for compressors. The advanced formulation of FluidForce HPO helps deliver exceptional oil life through: Exceptional resistance to thermal and chemical breakdown. Resist formation of deposits on rotating components in sliding vane slots for continuous efficient operation. Exceptionally low levels of deposit formation to help maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. FluidForce HPO helps provide exceptional protection and protection of internal metal surfaces from corrosion and wear. It contains an advanced ashless anti-wear system to help prolong the life of critical parts such as bearings. Shell Corena S4 R is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions helping to ensure reliable start-up and continuous compressed air availability. FluidForce HPO has low volatility and oil carryover to provide reduced oil top-up requirements in combination with increased air quality. In addition, FluidForce HPO has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.	FLUIDFORCE Vane Food Grade (VAFFC2000) is a next generation compressor oil based on a mixture of specially selected non toxic synthetic polyphaolefins combined with a high performance additive technology, authorised by the USDA as an H-1 approved lubricant for use processes where accidental contact with food is possible. It complies with FDA 21CFR 178.3570 – lubricants for incidental food contact. FLUIDFORCE Vane Food Grade is an extended life lubricant formulated to reduce maintenance intervals and extend compressor life.	FluidForce Vane gas compressor oil is formulated on the basis of especially highly refined base oils; the additives select make possible reliable use at high thermal stress without the formation of damaging residues. Very low Evaporation tendency and low coking. The additives select make possible reliable use at high thermal stress without the formation of damaging residue.
<b>Extended Warranty compliant</b>	Yes	Yes	Yes	No
<b>Maximum Life expectancy (Hours)</b>	2000	4000	2000	1000
<b>Recommended Service intervals</b>	2000 hours or 12 months **	4000 hours or 12 months **	2000 hours or 12 months **	1000 hours or 6 months **
<b>Properties/viscosity</b>				
<b>@ 40 °C, cSt</b>	68	68	98,5	73
<b>@ 100 °C, cSt</b>	8,9	10,2	13,1	11,9
<b>Pour Point °C</b>	-30	-45	-54	-21
<b>Flash Point °C</b>	248	248	238	250
<b>Demulsibility*</b>			10 mins	
<b>Water separability @ 54 °C*</b>	15 mins	10 mins		
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>1 Liter</b>	VAWO2000-1GT-BOX		VAFFC2000SP-1	
<b>5 Liters</b>	VAWO2000-5GT-BOX	HPO198-5N	VAFFC2000SP-5	ST215262
<b>20 Liters</b>	VAWO2000-20GT		VAFFC2000SP-20	
<b>209 Liters</b>	VAWO2000-209GT			

\* ASTM D1401

\*\* Recommended service interval is based on operating hours or calendar months, whichever ever comes first and 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 use while in service.

Synthetic Lubricant Compatibility – 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





# Gear and Cooling Lubricants:

## Gardner Denver and CompAir Oil Free Screw Compressors

**Gardner  
Denver**

**CompAir**  
by Gardner Denver

	<b>Gear Lubricant</b>	<b>Cooling / Anti Freeze</b>	
	PureCARE Gear Lubricant	Ultima Coolant / Antifreeze SF / PG	Antifreeze Coolant XLC
	Low volatility		
	Excellent Oxidation stability		
	Effective corrosion protection		
	Exceed the requirements of DIN 51506 VD-L test sequence		
	PureCARE Gear Lubrication is intended primarily for the lubrication of gears and drive mechanisms. The product has been subjected to ongoing development over many years and represent a modern approach to compressor lubrication. The range is based on selected low volatility mineral oil fractions to give freedom from deposits caused by oil carry over. Inhibitors are incorporated to control foaming, oxidation and to minimise mechanical wear.		
<b>Extended Warranty compliant</b>	N/a	N/a	N/a
<b>Maximum Life expectancy (Hours)</b>	8000		
<b>Recommended Service intervals</b>	8000 hours or 12 months **	5 Years **	5 Years **
<b>Properties/viscosity</b>			
@ 40 °C, cSt	68		
@ 100 °C, cSt	8,5		
<b>Pour Point °C</b>	-12		
<b>Flash Point °C</b>	200		
<b>Water separability @ 54 °C*</b>	20		
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>5 Liters</b>		ZS1156601	ZS1112611
<b>20 Liters</b>	100014655		
<b>Foodgrade FDA and NSF H1 compliant compressor oil</b>			
<b>200 Liters</b>	ZS1199228		

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, which ever comes first and 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.

**PureAir**  
ISO CLASS: ZERO PLUS SILICONE FREE



# ChampLUBE Lubricants: Champion Compressors



	Screw	Vane		Foodgrade
	<b>ChampLUBE Screw</b>	<b>ChampLUBE Vane</b>	<b>AEON "S"</b>	<b>AEON SCFG8000 Screw Foodgrade</b>
	Superior Protection exceeding industry standard	Superior Protection synthetic lubricant	Superior Protection synthetic lubricant	Food grade extended life lubricant
	Low oil carry-over and foaming	Increased machine operating efficiencies	Increased machine operating efficiencies	Superior dispersing characteristics for extending drain Intervals
	Superior water separation and air release	Formulated for excellent condensate oil/water separation	Formulated for excellent condensate oil/water separation	Resists the formation of foam, sludge, varnish and corrosive acids
				Exceptional lubrication at high and low temperatures. Superior rust and oxidation stability for long, trouble-free life
	<p>ChampLUBE Screw Screw Warranty Lubricant has been developed to resist formation of deposits on rotating components in screw compressors to maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. With many years of successful application, ChampLUBE Screw Screw Warranty Lubricant helps provide effective protection of internal metal surfaces from corrosion and wear. It contains an advanced ashless anti-wear system to help prolong the life of critical parts.</p> <p>ChampLUBE Screw Screw Warranty Lubricant is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions.</p> <p>In addition, FluidForce Screw Warranty Lubricant has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.</p>	<p>ChampLUBE Vane has been developed to resist formation of deposits on rotating components in vane compressors to maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems. With many years of successful application, ChampLUBE Vane helps provide effective protection of internal metal surfaces from corrosion and wear.</p> <p>It contains an advanced ashless anti-wear system to help prolong the life of critical parts.</p> <p>ChampLUBE Vane is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions.</p> <p>In addition, ChampLUBE Vane has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.</p>	<p>AEON "S" is a Superior Protection PAO (poly-alphaolefin)/MFSE (multi-functional synthetic ester) blend formulated with proven additive components.</p> <p>The result is superior thermal and oxidative stability. AEON "S" is ideal for applications which require extended operating intervals. It is formulated for demulsibility and optimum viscosity over the compressors entire operating temperature range.</p> <p>Lab life and multiple field applications have proven AEON "S" to provide superior service life, while minimizing oil carry over and unit maintenance.</p>	<p>AEON SCFG8000 is a custom-compounded compressor fluid specifically formulated for CompAir use only on rotary screw air compressors. Critical performance features include low fluid volatility, enhanced water demulsibility, superior hydrolytic stability, improved sealing effect, reduced friction, enhanced wear protection and superior fluid dispersing characteristics to eliminate "sludging" and deposit-forming tendencies.</p> <p>AEON SCFG8000 is fully compliant with 21 CFR 178.3570 and meets the requirements of USDA/NSF H1 (Lubricants with Incidental Food Contact) AEON SCFG8000 is compounded with a blend of next-generation, 100% food-grade synthetic base oils and advanced additive technologies to provide superior performance over competitive lubricating oils. This custom formulation, based on extensive research and development, provides AEON SCFG8000 with an optimized combination of anti-wear agents, rust inhibitors, and antioxidants that demonstrates a synergistic performance advantage over traditional air compressor fluids.</p>
<b>Extended Warranty compliant</b>	Yes	No	Yes	Yes
<b>Maximum Life expectancy (Hours)</b>	4000	2000	8000	8000
<b>Recommended Service intervals</b>	4000 hours or 12 months **	2000 hours or 12 months **	8000 hours or 24 months **	8000 hours or 24 months **
<b>Properties/viscosity</b>				
@ 40 °C, cSt	46	68	46	48,5
@ 100 °C, cSt	6,9	8,9	7,8	7,7
<b>Pour Point °C</b>	-30	-30	-48	-49
<b>Flash Point °C</b>	230	248	230	264
<b>Demulsibility*</b>			< 1 min	
<b>Water separability @ 54 °C*</b>	15 mins	15 mins	10 mins	20 mins
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>1 Liter</b>		CC1180033		
<b>4 Liters (box of 4 x 4 Ltrs)</b>	CC1180019			
<b>5 Liters</b>			A92130520	ZS1216903
<b>20 Liters</b>	CC1180020		A92130530	ZS1216945
<b>209 Liters</b>			A92130540	ZS1216946

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, which ever comes first and 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.

# High Pressure Piston Lubricants:

## Gardner Denver Piston Compressors

**Gardner  
Denver**
**HIGH PRESSURE SOLUTIONS**

	Synthetic			Mineral		
	Synteck S	Synteck W	Synteck H	Synteck N	Mynteck M	Mynteck R
	(Summer)	(Winter)	Helium	Nitrogen	Not suitable for breathing air	Lubrication for PET Compressors
	Cylinder and crankcase lubrication for reciprocating compressors	Cylinder and crankcase lubrication for reciprocating compressors	Cylinder and crankcase lubrication for reciprocating compressors	Cylinder and crankcase lubrication for reciprocating compressors	Cylinder and crankcase lubrication for reciprocating compressors	
	No metal additives	No metal additives	No metal additives	Wide operating temperature	Outstanding Oxidation and Thermal Stability	Outstanding Deposit control
	Fewer oil changes	Fewer oil changes	Fewer oil changes	Very low vapor pressure	Low Ash and Carbon Formation	Improved wear resistance
	Greatly reduces fire and explosion hazard	Greatly reduces fire and explosion hazard	Greatly reduces fire and explosion hazard	High oxidation resistance	High Load-carrying ability	Protective power
	Separates water condensate rapidly	Separates water condensate rapidly	Separates water condensate rapidly	Greatly reduces fire and explosion hazard	Excellent Water Separability	Increased Heat Resistance
	Lower oil consumption	Lower oil consumption	Lower oil consumption	Eliminates lacquering and deposits	Effective Rust and Corrosion Protection	
	Eliminates lacquering and deposits	Eliminates lacquering and deposits	Eliminates lacquering and deposits	Reduces energy consumption		
	Reduces energy consumption	Reduces energy consumption	Reduces energy consumption			
	Eliminates valve cleaning					
	Synteck S is a synthetic di-ester based compressor lubricant specifically designed to provide long term lubrication in reciprocating compressors.	Synteck W is a synthetic di-ester based compressor lubricant specifically designed to provide long term lubrication in reciprocating compressors. Recommended for areas with extreme cold temperatures in the winter	Synteck H is an ISO 150 synthetic di-ester based compressor lubricant specifically designed to provide long-term lubrication in air and process gas compressors. This product provides outstanding performance characteristics in both splash and piston type reciprocating compressors. Recommended for applications such as Helium Boosters	Synteck N is an ISO 320 ester based high-viscosity lubricant formulated to provide high temperature and/or long-term crankcase and cylinder lubrication with minimal deposits. Synteck N is especially suitable for applications in combination with dry nitrogen.	Mynteck M is recommended for single and multistage air compressors, but is not recommended for air compressors used in breathing air applications. Mynteck M is particularly effective for continuous high temperature operation with discharge temperatures up to 220°C. The use of the Mynteck M oil can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Its excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. They possess outstanding anti-wear and corrosion protection, which enhances equipment life and performance.	Mynteck R is recommended for PET blowing compressors. It provides triple protection against heat, deposits and wear. Well-proven performance additives help to protect against corrosion from acids formed. Keeps moving parts apart for a long compressor life.
<b>Recommended service intervals</b>	Please consult maintenance schedule of your compressor					
<b>Properties/viscosity</b>						
@ 40 °C, cSt	93,5	28,5	136,3	293	104,6	93
@ 100 °C, cSt	9,1	5,4	12,6	26,1	11,6	11
Pour Point °C	-33	-49	-39	-36	-36	-18
Flash Point °C	250	242	264	290	264	242
Density @15°C kg/l	0,957	0,924	0,964	0,94	0,879	0,89
Total Acid number mg KOH/mg	0,05	0,05	0,05	0,7	0,15	
Demulsibility @ 82°C (mins)	10		10			
Demulsibility @ 54°C (mins)		10				
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>1 Liter</b>	98384,102	98384,1021				
<b>5 Liters</b>	98384,1001	98384,1008	98384,1032			
<b>20 Liters</b>	98384,1002	98384,1009	98384,103	98384,1033	98384,1022	C246-200
<b>208 Liters</b>	98384,1003		Y50848			



# Compressor and Engine Lubricants: CompAir Portable Screw Compressors



### Compressor Oil

### Engine Oil C20 – C270

	SACO32	FLUIDFORCE Universal Lubricant	Premium Engine Oil 10W-40	Engine Oil 15W-40
	Excellent Protection meeting industry standard	Excellent Protection meeting industry standard	Outstanding protection against oil thickening, high temperature deposits, sludge build-up and, oil degradation	High thermal and oxidation stability. Reduction of sludge buildup and deposits for cleaner engines
	Economical	Economical	Excellent anti-wear, anti-scuff properties and bore polishing and corrosion protection.	Stay-in-grade shear stability. Wear protection and viscosity control for longer component life. Excellent low temperature properties
	Normal operating conditions	At ambient temperatures continuously above +25 °C	Excellent low temperature properties	Advanced detergency/dispersancy. Cleaner engines and longer component life
	CompAir SACO screw lubricant is an excellent performing lubricant that provides industry standard protection and performance in most manufacturing and many mobile equipment operations. It is designed to resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your screw compressor.	CompAir SACO screw lubricant is an excellent performing lubricant that provides industry standard protection and performance in most manufacturing and many mobile equipment operations. It is designed to resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your screw compressor.	CompAir Premium Diesel Engine oil 10W-40 is a synthetic extra high performance diesel engine oil engineered to provide lubrication to modern, high performance, low emissions engines used in severe applications. The new advanced additive system has been expertly engineered to help towards long engine life and maintain the efficiency of emission reduction systems including the Diesel Particulate Filter (DPF) and Selective Catalytic Reducers (SCR)	CompAir Diesel Engine oil 15W-40 is a highperformance mineral engine oil recommended for use in high-speed diesel engines, offering outstanding performance across all types of engines including modern engines without aftertreatment equipment.
<b>Extended Warranty compliant</b>	Yes	Yes	Yes	Yes
<b>Maximum Life expectancy (Hours)</b>	1000	1000	500	500
<b>Recommended Service intervals</b>	1000 hours or 12 months **	1000 hours or 12 months **	500 hours or 6 months **	500 hours or 6 months **
<b>Properties/viscosity</b>				
@ 40 °C, cSt	32	46		109
@ 100 °C, cSt	5,4	6,7	14.5	14.7
Pour Point °C	-30	-30	-36	-36
Flash Point °C	218	230	250	230
Grade			10W-40	15W-40
<b>Water separability @ 54 °C*</b>				
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	
<b>5 Liters</b>			ZS1216358	ZS1216355
<b>20 Liters</b>	SACO32-20	SCUO2000-20GT	ZS1216359	ZS1216359
<b>209 Liters</b>			ZS1216360	ZS1216357

\* ASTM D1401

\*\*Recommended service interval is based on operating hours or calendar months, which ever comes first and 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.

**NOTE: Using Premium Engine Oil 10W40 is mandatory for StageIIIB - IV and V engines.**





# Super-, Multi-, Gear-, Eco- and Oxy-Lube: Elmo Rietschle Blower and Vacuum Pumps



## Synthetic

## Mineral

	Super-Lube 46	Super-Lube 100	Super-Lube 320	Multi-Lube 32	Multi-Lube 46	Multi-Lube 100
	Lower oil consumption	Lower oil consumption	Very low vapor pressure	Excellent protection against corrosion results in less maintenance	Excellent multi-metal compatibility under high temperature and/or water contamination	Low vapor pressure as well as a low vaporization loss and a minimal coking tendency
	Eliminates lacquering and deposits	Eliminates lacquering and deposits	High oxidation resistance	Rapid air release and low foaming tendency prevents foaming and gear damage	Excellent protection against rust and corrosion, wear and metal fatigue	Very good water separation behavior
	Fewer oil changes	Fewer oil changes	Greatly reduces fire and explosion hazard	Superior thermal stability means less risk of deposits in gearbox	Controlled demulsibility	
	Reduces compressor maintenance	Reduces compressor maintenance	Eliminates lacquering and deposits			
	Greatly reduces fire and explosion hazard	Greatly reduces fire and explosion hazard	Reduces energy consumption			
		Super Lube 100 is an ester-based vacuum pump oil. Due to the oxidation resistance and stable viscosity of this product, there is no formation of varnish on surfaces. The excellent film strength and excellent fluidity of this lubricant reduce wear, increase efficiency and increase the replacement intervals by many times compared to mineral oil lubricants. This results in shorter downtime and lower operating costs. In other words, using Gardner Denver Lubricants means cost savings and trouble-free operation.	Super-Lube 320 is an ISO 320 ester based high-viscosity lubricant formulated to provide high temperature and/or long-term crankcase and cylinder lubrication with minimal deposits. Super-Lube 320 is especially suitable for applications in combination with dry nitrogen.	Multi-Lube 32 is suitable for conventional industrial gearboxes where a low viscosity oil is suitable. This oil provides higher load carrying performance compared to conventional antiwear hydraulic fluids, together with excellent oxidation resistance, anti-corrosion and minimal foaming. Multi-Lube 32 is fully compatible with nitrile, silicone and fluoro-polymer seal materials.	Lubricating oil for hydraulic systems, gearboxes and bearings of all kinds, where high operating temperatures or longer oil change times increased age requirements. Based on mineral oil it has good wear protection, rapid water separation, excellent corrosion protection, resistance to foaming, good air separation capacity and favorable viscosity/temperature behavior. For circulation systems and fillings of all kinds. For oxidative and thermally highly stressed oil filled vacuum pumps.	Multi Lube 100 is a special vacuum pump oil with a narrow boiling range for mechanically delicate and high-vacuum pumps. Multi Lube 100 is formulated with a core fraction of a paraffin based solvent raffinate, combined with a very high initial boiling point, a low vapor pressure as well as a low vaporization loss and a minimal coking tendency. Moreover, Multi Lube 100 has a minimal foaming tendency and a very good water separation behavior. Multi Lube Formulated for the use in mechanical vacuum pumps which work in fine vacuum and high vacuum field to about 0,0001 mbar. This product has proven especially reliable in rotary valve pumps, rotary piston pumps and rotating piston pumps.
<b>Recommended Service intervals</b>	Please consult maintenance schedule of your Pump/Blower					
<b>Properties/viscosity</b>						
@ 40 °C, cSt	45,5	91	320	32	43	95
@ 100 °C, cSt	6,7	10,6	24	5,7	6,7	10,7
Pour Point °C	-35	-12	-12	-36	-12	-12
Flash Point °C	235	230	270	230	230	265
Density g/cm <sup>3</sup>	0,96	0,96	0,94	0,87	0,87	0,88
Demulsibility @ 54°C, ml oil/water/emulsion (min)	40/38/2 (<30)	39/38/3(<60)				
Copper Strip Corrosion, 3 hrs @ 100°C	1A	1A				
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>
<b>0.35 Liters</b>		7201730000				
<b>0.5 Liters</b>	7201576000					
<b>1 Liter</b>	7201496000	7201586000	7201476000	7201556000	7201506000	7502126000
<b>5 Liters</b>		7201466000				7502096000
<b>10 Liters</b>						
<b>20 Liters</b>						
<b>200 Liters</b>		7201610000		7200710000	720089	7200520000

	Mineral	Synthetic Bearing and Gear	Synthetic Foodgrade	Synthetic vacuum pump		
	Multi-Lube 320	Gear-Lube 150	Gear-Lube 220	Eco-Lube 100	Oxy-Lube 100	Oxy-Gear-Lube 160
	This product disposes of a good water separation ability	Very good load carrying capacity and wear protection	Good thermal and oxidative stability provides reliable operation and extended operating life when compared to mineral oil based products	Reduced varnish lacquering and deposits	Separates water condensate rapidly	Very good plastic compatibility
	Minimal foaming tendency	Prolongs oil changing intervals	Good water separation and demulsification characteristics means reduced down time through prolonged	Minimizes maintenance and downtime	Extended Service Interval	Very good oxidation stability
		Reduces the coefficient of friction			Reduces energy consumption	High thermal stability
						Good low temperature behaviour
						Neutral in smell
	Multi Lube 320 is a special vacuum pump oil with a narrow boiling range for mechanically delicate and high-vacuum pumps. Multi Lube 320 is formulated with a core fraction of a paraffin based solvent raffinate, combined with a very high initial boiling point, a low vapor pressure as well as a low vaporization loss and a minimal coking tendency. Moreover, Multi Lube 320 has a minimal foaming tendency and a very good water separation behavior. Multi Lube Formulated for the use in mechanical vacuum pumps which work in fine vacuum and high vacuum field to about 0,0001 mbar. This product has proven especially reliable in rotary valve pumps, rotary piston pumps and rotating piston pumps.	Gear-Lube 150 is high performance synthetic gear and circulation oil with EP additives for gearboxes running under high mechanical or thermal loads. Possessing excellent oxidation stability and shear resistance, extended oil changing intervals can be achieved with Gear-Lube 150. This synthetic lubricant with high viscosity index is recommended for wide service temperature range, Gear-Lube 150 can be used in gear boxes and circulation systems that operate continuously in temperatures above 100°C as well as mechanisms that operate in freezing conditions. Also, Gear-Lube 150 does not react with mineral oil resistant seal material or machine paints.	Gear Lube 220 is a high quality gear oil based on poly-alphaolefin (PAO). The balanced sulphur/phosphorus Extreme Pressure (EP) additive technology provides good thermal stability and high load carrying capacity. The product has been formulated for use in all types of enclosed gears including heavy and shock-loaded gears and bearings where EP properties are required. It is suitable for use in gear boxes where micro-pitting resistance is required and for a wide range of applications in extreme environments, for example mining and quarrying, marine applications and paper production.	ECO-LUBE is a special, synthetic lubricant for vacuum pumps and compressors, which was developed from the outset for use in the food and pharmaceutical industries to fulfil the requirements of LMBH §§ 5 and 31, as well as the definitions at FDA 21 CFR 178.3570 and USDA H-1.	OXY-LUBE PLUS is a synthetic di-ester oil which can be used for conveying gaseous oxygen in vacuum pumps up to a pressure of 2 bar and a temperature of 150 °C. The oil is approved by BAM.	Noise damping, excellent material compatibility (polymers, elastomers, non-ferrous metals, leather), high thermal stability and oxidation resistance. Chemical and temperature resistant special synthetic oil. Examples of Application · Components for oxygen e.g. vacuum pumps or measuring instruments · Applicable within the range roughly, fine and high vacuum
<b>Recommended Service intervals</b>	Please consult maintenance schedule of your Pump/Blower					
<b>Properties/viscosity</b>						
@ 40 °C, cSt	299	150	223	100	85	160
@ 100 °C, cSt	23	19	26,1	12,9	9,8	16
Pour Point °C	-6	-45	-45	-50	-20	-39
Flash Point °C	288	270	240	240	230	
Density g/cm <sup>3</sup>	0,89	0,84	0,84	0,84	0,92	1.9
<b>Demulsibility @ 54°C, ml oil/water/emulsion (min)</b>						
<b>Copper Strip Corrosion, 3 hrs @ 100°C</b>						
	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	<b>Part Numbers</b>	
<b>0.35 Liters</b>						
<b>0.5 Liters</b>						
<b>1 Liter</b>	7500506100	7201706000	ZS1181820		7202620000	7202856000
<b>5 Liters</b>				7201486000		
<b>10 Liters</b>					7202616100	
<b>20 Liters</b>			7202990000			
<b>200 Liters</b>	7200510000	7201656000		7201720000		



## Global Expertise

The **GD rotary screw compressor** range from 2,2 – 500 kW, available in both variable and fixed speed compression technologies, are designed to meet the highest requirements which the modern work environment and machine operators place on them.



The **GD oil-free EnviroAire** range from 4 – 315 kW provides high quality and energy efficient compressed air for use in a wide range of applications. The totally oil-free design eliminates the issue of contaminated air, reducing the risk and associated cost of product spoilage and rework.



A modern production system and process demands increasing levels of air quality. The **complete GD Air Treatment** range ensures the highest product quality and efficient operation..



Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect air management system** is essential.



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[www.gardnerdenverproducts.com](http://www.gardnerdenverproducts.com)

For additional information please contact Gardner Denver or your local representative.

Specifications subject to change without notice.