



**ANDEROL®**

Specialty Lubricants

# PROTECTING WHAT'S IMPORTANT

Tailored solutions  
for critical applications



**We are proud to offer them to you here**



# ANDEROL® Lubricants

**ANDEROL®** is one of the most respected brands in the lubricants world. The products contained in this brochure represent a sampling of our products, all of which consistently deliver on the promise of improved equipment performance, as well as reduced downtime and maintenance costs; many under extreme load and environmental conditions.



## ANDEROL® Food Grade Lubricants

Manufacturers of food, beverages, pharmaceuticals, and other consumables no longer face a no-win situation when selecting lubricants. No longer must anyone settle for poor performance and lower productivity in order to comply with

- Maximum Equipment Performance
- Superior Protection of Equipment
- Full Regulatory Safety Compliance

governmental safety and environmental regulations.

Food processors can now effectively achieve HACCP (Hazard Analysis and Critical Control Point) food safety goals with Anderol Food Grade Synthetic and White Oil-based Lubricants. Our FDA compliant lubricants not only outperform other food grade lubricants, they actually perform better in several critical areas than many widely used conventional lubricants. In fact, ANDEROL and PQ Food Grade Lubricants can be used in the most severe, heavy-duty applications throughout your entire manufacturing operation. In the process, they'll also save you time and money.

### PQ® AND ANDEROL®

H1 and H2\*) Food Grade Lubricant applications maximize equipment performance and minimize wear, without contaminating equipment or products.

- Typical Applications
- Baking
  - Bottling
  - Pharmaceuticals
  - Fruits
  - Vegetables
  - Canning
  - Meat
  - Poultry
  - Dairy

\*) H1 and H2 are designations which were originally defined by USDA and continued by NSF International and industry organizations.





## GEARS AND BEARINGS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
6150	PAO	150		
6220	PAO	220		
6220 Spray	PAO	220	H1 High Performance Food Grade Gear Lubricant	Gear sets, excluding worm gears *), Bearings, Circulating Oil Systems, Chains.
6320	PAO	320		
6460	PAO	460		
6680	PAO	680		
C-NRT FG Gear 220	Synthetic	220		
C-NRT FG Gear 460	Synthetic	460	H1 Food Grade Inert Gear Lubricant	Gear sets, excluding worm gears *), Bearings, Circulating Oil Systems, Chains.
PQAA 150	White Oil	150		
PQAA 220	White Oil	220		
PQAA 320	White Oil	320		
PQAA 460	White Oil	460	H1 Food Grade Gear Lubricant	Suitable for food manufacturing applications where incidental food contact may occur. Recommended for use in: Worm Gear applications/Bearings and Gears/Chain Lubrication/Wipe down Oil.
PQAA 680	White Oil	680		
PQAA 1000	White Oil	1000		



## GEARS AND CHAINS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
7150 FG	PAG	150		
7220 FG	PAG	220	H1 High Performance Food Grade Gear & Chain Lubricant	Worm gears/Chains and ways, including high water containing applications. Can also be used in: Low speed gear sets/Bearings/ Circulation Systems.
7320 FG	PAG	320		
7460 FG	PAG	460		



## COMPRESSORS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
C-NRT FGC 32	Synthetic	32		
C-NRT FGC 46	Synthetic	46		
C-NRT FGC 68	Synthetic	68		
C-NRT FGC 100	Synthetic	100		
C-NRT FGC 150	Synthetic	150	H1 Food Grade Inert Compressor Lubricant	Cylinder and crankcase lubrication for centrifugal and screw compressors for the following gases: Air/Butadiene/Carbon Monoxide/Fumace (crack) gas/Carbon Dioxide (dry)/Ethylene/Helium/Hydrogen/Fluoride gases/Hydrogen Sulfide (dry)/Natural gas/Methane/Nitrogen/Propane/Synthesis gas/Sulfur Hexafluoride/Bio gas.
FG XL 32	PAO	32		
FG XL 46	PAO	46		
FG XL 68	PAO	68		
FG XL 100	PAO	100	H1 High Performance Food Grade Compressor Lubricant	Recommended for use in rotary-screw compressors and other rotating equipment applications where incidental food contact may occur. Nominal operating range is -35/-40°C to 170°C.
FG XL 150	PAO	150		
RCF P 68FG	PAO	68	H1 High Performance Food Grade Compressor Lubricant	Recommended for use in rotary-screw compressors and other rotating equipment applications where incidental food contact may occur. Nominal operating range is -35/-40°C to 170°C. This product was especially designed to be used in ammonia refrigeration applications.

\*) For Worm Gears Anderol 7000 Series is recommended.



## VACUUM PUMPS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
C-NRT Plus 32 FG	Synthetic	32		
C-NRT Plus 100 FG	Synthetic	100	H1 Inert Vacuum Lubricant	Especially designed to lubricate vacuum pumps in combination with reactive gases. Also suitable for other rotary equipment. Applicable in contact with the following gases: Air/Butadiene/Carbon Monoxide/Furnace (crack) gas/Carbon Dioxide (dry)/Ethylene/Helium/Hydrogen/Fluoride gases/Hydrogen Sulfide (dry)/Natural gas/Methane/Nitrogen/Propane/Synthesis gas/Sulfur Hexafluoride/Bio gas.



## HYDRAULICS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
FGH 15	PAO	15		
FGH 22	PAO	22		
FGH 32	PAO	32		
FGH 46	PAO	46	H1 High Performance Food Grade Hydraulic Lubricant	Recommended for hydraulic systems in food processing machinery. Also recommended for chains, vanes, canning and bottling machinery. Nominal operating range is -35/-40°C to 170°C.
FGH 68	PAO	68		
FGH 100	PAO	100		



## GENERAL PURPOSE

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
PQAA 22	White Oil	22		
PQAA 32	White Oil	32		
PQAA 46	White Oil	46		
PQAA 68	White Oil	68		
PQAA 100	White Oil	100	H1 Food Grade Lubricant General Purpose	Suitable for food manufacturing applications where incidental food contact may occur. Recommended for use in: Hydraulic systems and slide ways/Pneumatic tools/Wipe down oil. Can generally be used in all other rotating equipment applications.





## GREASES

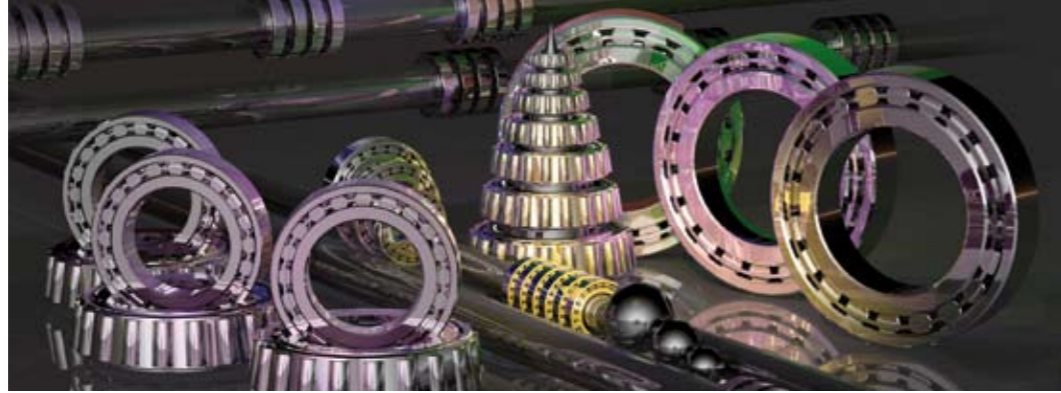
ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
783-00	PAO	350	Synthetic Food Grade Grease	Lubrication of roller and friction bearings in food and beverage, cosmetic an pharmaceutical industry/High temperatures, high loads and water exposure/High quality general-purpose food grade grease/Grease lubricated points in can seaming and bottling/Excellent wear protection/Prevent rusting/Good mechanical stability.
783-00 Spray	PAO	350		
783-0	PAO	350		
783-1	PAO	350		
783-2	PAO	350		
FGCS 2 HD	PAO	400	H1 Synthetic Heavy Duty Food Grade Calcium Sulfonate Complex Grease	Low to medium speed bearings operating under harsh conditions/Applications operating during periods of infrequent lubrication/Heavy duty food grade applications, e.g. presence of water, heat, extreme load.
FGCS-2	White Oil	95	Food Grade Calcium Sulfonate Complex Grease	Superior mechanical stability, particularly in the presence of heat and water/Formulated to resist separation under centrifugal forces/Excellent rust prevention properties/Excellent load carrying ability and wear protection/Excellent resistance to water washout and spray-off/H1 grease for incidental contact with food/Heavy duty food-grade applications/Increased life performance.
FGCS-2 Plus	PAO	50	Synthetic Food Grade Calcium Sulfonate Complex Grease	Superior mechanical stability, particularly in the presence of heat and water/Formulated to resist separation under centrifugal forces/Excellent rust prevention properties/Excellent load carrying ability and wear protection/Excellent resistance to water washout and spray-off/H1 grease for incidental contact with food/Heavy duty food-grade applications/Increased life performance.
HTFG-2	PFPE	500	General Purpose Grease for Elevated Temperatures	Food grade high temperature grease/Applications where Elastomer compatibility is a must/Temperature charged conveyors/Baking ovens/Drying, lacquering and enamelling furnaces/Tunnel furnace trolleys/Hot gas fans/Textile tenter frames, foil stretching machines/Valves and fittings for Oxygen (up to 60 °C and pressure limit of 100 bar)/Bicycle shifters/Bicycle suspension/Fishing reels/CD-DVD drives (main bearing).



## GREASES continued

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
PQAA Grease #1	White Oil	160	Aluminium Complex General Purpose Grease with EP properties NLGI 00, 0, 1, 2	Lubrication of friction bearings even at high temperatures and water exposure/General purpose food grade grease/Lubrication of machinery in food and beverage industry/Grease lubricated points in can seaming and bottling/Excellent wear protection/Prevent rusting/Good mechanical stability.
PQAA Grease #2	White Oil	160		
PQAA-00 PLUS	White Oil	160	Aluminium Complex General Purpose Grease with EP properties NLGI 00, 0, 1, 2	Lubrication of friction bearings even at high temperatures and water exposure/General purpose food grade grease/Lubrication of machinery in food and beverage industry/Grease lubricated points in can seaming and bottling/Excellent wear protection/Prevent rusting/Good mechanical stability.
PQAA-0 PLUS	White Oil	160		
PQAA-1 PLUS	White Oil	160		
PQAA-2 PLUS	White Oil	160		





**ANDEROL®**

## Industrial Lubricants

For over sixty years, Anderol has been a leading innovator in the development of synthetic lubricant solutions for a wide range of applications and industries. Driven by our commitment to customer satisfaction, we have designed our products to

- Maximum Equipment Performance
- Reduce Down Time & Maintenance Costs
- Tailored Solutions for Critical Applications

meet or exceed the increasing demands of the industries we serve. Our products consistently deliver on the promise of

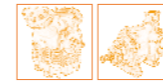
maximized equipment performance and reduced maintenance costs, as well as a variety of specific benefits tailored precisely for your critical application.

We have earned the confidence of our customers, largely due to the combination of our extensive Research and Development departments, our Technical Services staff, and our unique ability to offer the most cost effective solution for your application.

We welcome the opportunity to discuss our products and services with you.

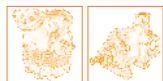
### Typical Applications

- Air Compressors
- Vacuum Pumps
- Gear Boxes
- Bearings
- Hydraulics
- Chain



## COMPRESSORS AND VACUUM PUMPS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
1200N 1255	Ester Ester	320 320	Synthetic Reciprocating Compressor Lubricant	Highly recommended as long term cylinder and crankcase lubricant for reciprocating process/Gas compressors and vacuum pumps. Will be used for applications (excl. H2) in combination with dry Nitrogen.
3046	PAO/Ester	46	Synthetic Centrifugal/Rotary Compressor Lubricant	Oil flooded screw, axial and centrifugal compressors, applications requiring an oxidation resistant lubricant. Can be used in the presence of following gases: Air/ Butadiene/Carbon Monoxide/Furnace (crack) gas/Carbon Dioxide (dry)/Ethylene/Helium/Hydrogen/Hydrogen Sulfide (dry)/Natural gas/Methane/Nitrogen/Propane/Synthesis Gas/Sulfur Hexafluoride.
3057M	PAO/Ester	57	Synthetic Centrifugal/Rotary/Reciprocating Compressor Lubricant	Oil flooded rotary screw compressors / Oil flooded rotary vane compressors. Can be used for the compression of Air, Helium and hydrocarbon gases containing fractions of acidic components such as H2S. Especially recommended for railway brake systems.
3068	PAO/Ester	68	Synthetic Rotary/Reciprocating Compressor Lubricant	Lubrication of oil flooded screw and vane compressors, or any other application requiring an oxidation resistant lubricant. Can be used in the presence of following gases: Air/Carbon Monoxide/Carbon Dioxide (dry)/ Ethylene/Helium/Hydrogen/Natural gas/ Methane/ Nitrogen/Propane/Butadiene.
3100 3150	PAO/Ester PAO/Ester	100 150	Synthetic Reciprocating Compressor Lubricant for General Purpose	Lubrication of piston and vane compressors, or any other applications requiring an oxidation resistant lubricant. Can be used in the presence of following gases: Air/ Carbon Monoxide/Carbon Dioxide (dry)/Ethylene/ Helium/Hydrogen/Natural gas/ Methane/ Nitrogen/ Propane/Butadiene.
495 496 497	Ester Ester Ester	32 46 68	Synthetic Centrifugal/Rotary/Reciprocating Compressor Lubricant	Can be used for the lubrication of: Oil flooded rotary screw compressors / Oil flooded rotary vane compressors / Axial compressors / Centrifugal compressors & vacuum pumps, in the presence of following gases: Air/Butadiene/ Carbon Monoxide/Furnace (crack) gas/Carbon Dioxide (dry) Ethylene/Helium/Hydrogen/Hydrogen Sulfide (dry)/Natural gas/Methane/Nitrogen/Propane/Synthesis gas/Sulfur Hexafluoride.
500 555 755	Ester Ester Ester	100 100 150	Synthetic Reciprocating Compressor/ Vacuum Pump Lubricant	Cylinder and crankcase lubrication for reciprocating compressors, vane compressors and vacuum pumps. Can be used in the presence of following gases: Air/Butadiene/ Carbon Monoxide/Carbon Dioxide (dry)/Ethylene/Helium/ Hydrogen/Natural gas/Methane/Nitrogen/Propane.



## COMPRESSORS AND VACUUM PUMPS continued

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
568	Ester	68	Synthetic Compressor Lubricant	Suitable for screw, vane and piston compressors requiring very good wear and oxidation resistance. The low pour point and high film strength provides special protection when operating in start/stop mode in cold weather conditions, e.g. snow blowers.
ALL 5	PAO	5	High Performance Air Line Lubricant	Recommended for use in all sorts of pneumatic tools and as flushing fluid/Conveyor line components/Controls/ All air actuated components.
C-NRT 32 C-NRT 46 C-NRT 68 C-NRT 100 C-NRT 150	PAO PAO PAO PAO PAO	32 46 68 100 150	Inert Compressor Lubricant	Cylinder and crankcase lubrication for centrifugal and screw compressors for the following gases: Air/Butadiene/Carbon Monoxide/Furnace (crack) gas/Carbon Dioxide (dry)/Ethylene/Helium/Hydrogen/Fluoride gases/Hydrogen Sulfide (dry)/Natural gas/Methane/Nitrogen/Propane/Synthesis gas/Sulfur Hexafluoride/Bio gas.
HTS 100	Synthetic	100	High Torque and Speed Compressor Lubricant	Particularly suited for vane compressor applications in extreme service conditions. This product can naturally also be used for general rotating equipment applications.
PG Supreme 46	PAG	46	High Performance Compressor Lubricant	Use in oil-flooded rotary screw compressors that specify a polyglycol based lubricant. Drop-in replacement for compressors presently using OEM-type PAG/POE oils.
RCF-P68	PAO	68	Synthetic Refrigeration Compressor Lubricant	Ideal lubricant for reciprocating and rotary compressors in refrigeration systems with high pressure and very low evaporator temperatures due to the combination of excellent lubricating properties, high film strength, very low vapor pressure and total compatibility with ammonia. Ideal solution for any ammonia filled installation.



## CHAIN LUBRICANTS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
2100 HTCL 2150 HTCL 2220 HTCL 2320 HTCL 2460 HTCL	Ester Ester Ester Ester Ester	100 150 220 320 460	Synthetic High Temperature Chain Lubricant	Recommended to be used in difficult environments and conditions including: Pulsating, heavy loads and/or high speeds / Grit, dust, acids and moisture / High temperature. Can be applied by Brush / Manually / Oil bath / Pressurized system.
Chain Oil XL 220	Ester	220	High Temperature Synthetic Chain Oil	Designed for use in tunnel ovens and spiral ovens. Can also be used in the following applications: Conveyor systems/Printing and coating operations/Wood-forming machinery such as that used in the oriented strand board or plywood industry/Other applications requiring a high temperature bearing, cam or slide lubricant.



## GEAR AND BEARINGS

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
465	Ester	68	Synthetic Lubricating Oil	Impregnating fluid for sintered metal bearings, parts and wicks/Measuring and dispensing pumps and meters/Anti-friction bearings/Mechanical spring and actuator mechanisms/Office, computing and accounting equipment/General purpose medium viscosity lubricating oil/Wire extrusion oil.
5150 XEP 5220 XEP 5320 XEP 5460 XEP 5680 XEP 5999 XEP	PAO/Ester PAO/Ester PAO/Ester PAO/Ester PAO/Ester PAO/Ester	150 220 320 460 680 1000	Synthetic Gear and Bearing Lubricant	Particularly suited for gear applications in which extreme service conditions / All types of enclosed gear drives / Bearings, including plain rolling elements and anti-friction types / Enclosed gear cases and speed reducers.



## GREASES

ANDEROL	Base Fluid	Viscosity ISO VG	Description	Application
794	Ester	135	Synthetic Greases	Fine instruments / Watches, clocks and timing devices / Precision Anti-friction bearings / Office, computing and accounting.
86 EP-2	Mineral Oil	135	Calcium Sulfonate Complex Grease NLGI-2	Superior mechanical stability, particularly in the presence of heat and water/Formulated to resist separation under centrifugal forces/Excellent rust prevention properties/Excellent load carrying ability and wear protection/Excellent resistance to water washout and spray-off/Suitable grease for high speed bearings/Suitable for automotive and truck wheel bearings and chassis components/Excellent electric motor bearing grease/Heavy duty industrial applications, e.g. steel mills.
OGWR-0	Mineral Oil	500	Open Gear and Wire Rope Grease	Designed for automatic spray lubrication of toothed wheels, gear rings, toothed racks and pinions of any kind under high pressure and temperature operations. It suits for lubrication of rotary furnaces or similar hot lubricating points even under dusty and wet conditions.
OGWR-0 Spray	Mineral Oil	500	Open Gear and Wire Rope Grease Spray	Toothed wheels/Toothed racks/Gear rings/Pinions of any kind under high pressure and temperature operation. Easy to use in difficult reachable places.



## CONTACT ANDEROL® TODAY

ANDEROL can provide you with a source for high quality specialty lubricants. Our technical professionals are ready to assist you with your specific application needs. For additional information on any of our products, call, mail or fax us today. Product data and MSDS sheets on our lubricants are available from our website.

Warranty: All products purchased from Anderol Inc. and its global subsidiaries are subject to the terms and conditions set out in the sales contract, order acknowledgement, and/or bill of lading. Anderol Inc. warrants only that its products will meet those specifications designated as such herein or in other Anderol Inc. publications. All other information supplied by Anderol Inc. is believed to be accurate but is furnished upon the express condition that the customer or user shall make its own assessment to determine the product's suitability for a particular purpose. No Warranty is expressed or implied regarding such other information, the data upon which the same is based, or the results obtained from the use thereof, that any product shall be merchantable or fit for any particular purpose, or that the use of such other information or product will not infringe any patent. Before using any chemical, read its label and Material Safety Data Sheet.

If you would like improved performance from your critical equipment, call us today. We are pleased to discuss our lubricants, provide additional technical data, and offer advice on specialty lubrication issues.

Authorized Distributor:

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TAILORED SOLUTIONS FOR  
CRITICAL APPLICATIONS



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