

QUALITY LUBRICATES.



Anderol® High Performance Food Grade Lubricants

80 years of experience, expertise and a global reputation as a manufacturer of High Performance Industrial and Food Grade Synthetic Specialty Lubricants and Greases for Compressors, Vacuum Pumps, Hydraulics, Chains, Gears, and Bearings.

www.anderol.com

X **Anderol®**

QUALITY WORKS.

LANXESS
Energizing Chemistry

ANDEROL®

FOOD GRADE LUBRICANTS

Anderol has been a pioneer in the field of synthetic lubricants. As early as 1941, Dr. Robert E. Lee Anderson, Founder of Anderol, developed the first approved synthetic lubricant. In subsequent years, Anderol has been an innovator in the development of synthetic lubricant solutions. Driven by commitment to customer satisfaction, we have designed our products to meet or exceed the increasing demands of the industries we serve - globally. Our products consistently deliver on the promise of maximised equipment performance, reduced downtime and maintenance costs, and minimised waste disposal.

Anderol® Food Grade lubricants is a part of LANXESS' portfolio of finished fluids. LANXESS is a global leader in specialty chemicals with 60 sites worldwide and present in 33 countries. LANXESS' lubricant additive business which we are a part of, is headquartered in Shelton, CT, USA with 12 production sites in 9 countries. With technical competence centers in Mannheim - Germany, Nanjing and Qingdao - China, Naugatuck – USA, and in West Hill – Canada, LANXESS provides excellent technical service and research to customers globally.

We have earned the confidence of our customers, largely due to extensive research and development, and technical service capabilities and the ability to work with our customers to offer the most cost effective solutions for their applications.

We welcome the opportunity to discuss our products and services with you and provide you with a tailor-made solution for your critical application.

The Benefits of using Anderol® Food Grade Lubricants

- Excellent performance
- Extended lubricant life
- Less lubricant used, thus minimised waste/disposal
- Highly efficient protection of equipment
- Low deposit formation
- Extended machinery life
- Reduced down time and maintenance costs
- Tailor made solutions

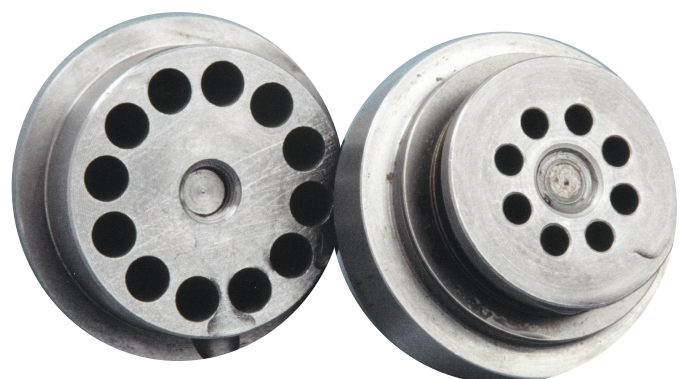
GUARANTEED SAFETY & RELIABILITY

Anderol® Food Grade lubricants may be used in applications where incidental food contact may occur. The composition of these products pose no threat to the health of consumers and are excellent for use in a HACCP work policy. Aside from being H1, NSF registered, Anderol® Food Grade lubricants are also Kosher and Halal certified. Manufactured in an ISO 21469 and 9001 certified plant.

CHOOSE THE DIFFERENCE

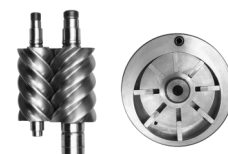


Conventional Lubricant



Anderol® Lubricant

COMPRESSORS & VACUUM PUMPS



Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
C-NRT Plus 32 FG	Synthetic	32	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, Sulphur hexafluoride, bio gas.
C-NRT Plus 100 FG		100		
C-NRT FGC 68	Synthetic	68	H1 Food grade 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, Sulphur hexafluoride, bio gas. Viscosities 32 and 46 are available on demand.
C-NRT FGC 100		100		
FG XL 32	PAO/Ester	32	H1 High Performance Food grade Compressor Lubricant	Improved detergency performance. Recommend for use in rotary-screw compressors, other rotating equipment applications and vacuum pumps where incidental food contact may occur. Nominal operating range is -35/-40°C to 170°C. Performance time 8,000 to 10,000 hrs for fixed compressors, up to 12,000 hrs with lubricant analysis monitoring*).
FG XL 46		46		
FG XL 68		68		
FG XL 100		100		
FG XL 150		150		
SYNcom FG HiPerf 46	PAO/Ester	46	H1 High Performance Food Grade Lubricant with extreme long life	High Performance Screw Compressor oil with extreme long oil life suitable for Rotary Screw compressors. Very low deposit formation results in clean machinery lubrication.
FG S 32		32		
FG S 46	Group III+ Synthetic detergency	46	Semi-Synthetic H1 High Performance Food grade Compressor Oil	Recommended for use in Oil-flooded rotary screw compressors, centrifugal compressors and other applications requiring an oxidation resistant lubricant. Performance time up to 6,000 hrs*.
FG S 68		68		
FG S 100		100		
RCF-P 68 FG	PAO	68	H1 High Performance Food grade refrigeration Compressor Lubricant	Recommend 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.

*Under standard conditions of use

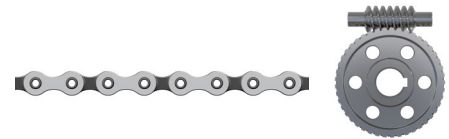


GEARS & BEARINGS



Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
6150	PAO	150	H1 High Performance Food grade Gear Lubricant	Gear sets, excluding worm gears *, bearings, circulating oil systems and chains.
6220		220		
6220 Spray		220		
6320		320		
6460		460		
6680		680		
PQAA 150	White Oil	150	H1 Food grade Gear Lubricant	Suitable for food manufacturing applications where incidental food contact may occur. Recommended for use in: bearings and gears, seamers, chain lubrication, wipe down oil.
PQAA 220		220		
PQAA 320		320		
PQAA 460		460		

GEARS & CHAINS



Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
7150 FG	PAG	150	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 and circulating oil systems.
7220 FG		220		
7320 FG		320		
7460 FG		460		
CHAIN OIL XL 220 FG	POE	220	H1 Synthetic High Temperature Chain Oil	Extreme high flash point, and very low deposit formation. Designed for conveyors in tunnel and spiral ovens such as baking oven chains. 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.



HYDRAULICS



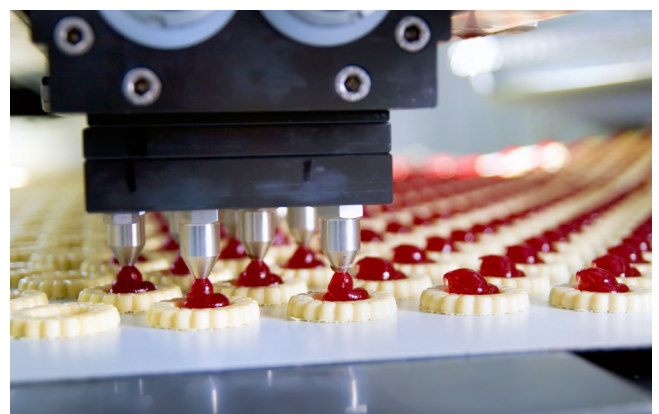
Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
FGH 15	PAO	15	H1 High Performance Food grade Lubricant	Recommended for hydraulic systems in food processing machinery. Also recommended for chains, vanes, canning and bottling machinery. Nominal operating range -35/-40°C to 170°C.
FGH 22		22		
FGH 32		32		
FGH 46		46		
FGH 68		68		
FGH 100		100		
PQAA 22	White Oil	22	H1 Food grade Lubricant General Purpose	Suitable for food manufacturing applications where incidental food contact may occur. Recommended for use in hydraulic systems, slide ways, pneumatic tools and wipe down oil. Can generally be used in all other rotating equipment applications. Performance time up to 4,000 hrs*.
PQAA 32		32		
PQAA 46		46		
PQAA 68		68		

*Under standard conditions of use

OTHER APPLICATIONS



Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
DDO	Vegetable Oil	Typical 35	3H Food Grade Dough Divider Oil	Lubricant for dough dividers in the baking industry, protective coatings for food stuffs, dust control agent, release agent, forming and rolling of aluminum foil, meat hooks and butcher equipment.
PQ CAL	White Oil	Typical 35	HT1 Food Grade Heat Transfer Fluid	A non-hazardous, non-toxic and odourless high performance heat transfer fluid, which is authorised for incidental food contact.
Sugar Dissolving Oil			H1 Food Grade Sugar Dissolving Oil	Prevents sugar build-up when applied, dissolves sugar and fondant, provides a lubricating film, insensitive to light, rust preventing and easy to rinse off, high temperature resistant, does not become rancid over time, easy to apply by brush, drip or spray.
ALL 5	PAO	5.5	H1 High Performance Air Line Lubricant	Recommended for use in all sorts of pneumatic tools and as a flushing fluid; conveyor line components, controls and all air actuated components.



GREASES



Anderol®	Base Fluid	Viscosity ISO VG	Description	Application
FGCS-2	White Oil	95	H1 Food grade Calcium Sulfonate Complex Grease	Excellent 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 and increased life performance.
FGCS-2 PLUS	PAO	50	H1 Synthetic Food grade Calcium Sulfonate Complex Grease	Excellent 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 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 or extreme load. E.g. Pellet mills.
783-00 Spray	PAO	350	H1 Synthetic Food grade Aluminum Complex Grease	Lubrication of roller and friction bearings in food and beverage, cosmetic and pharmaceutical industries, 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, prevents rusting, with good mechanical stability.
783-0		350		
783-1		350		
783-2		350		
HTFG-2	PTFE	500	H1 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 enameling furnaces, tunnel furnace trolleys, hot gas fans, textile tender 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 and CD-DVD drives (main bearing).
PQAA Grease #2	White Oil	160	H1 Aluminum Complex General Purpose Grease with EP properties NLGI 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, prevents rusting, good mechanical stability.
PQAA-1 PLUS	White Oil	160	H1 Aluminum Complex General Purpose Grease with EP properties NLGI 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, prevents rusting, good mechanical stability.
PQAA-2 PLUS		160		



CERTIFICATES

& APPROVALS

Anderol B.V. is certified to ISO 9001:2015 and ISO 21469, and has been awarded with Kosher and Halal registrations on its food lubricant plant. Furthermore are all food grade lubricants NSF registered.

For registrations, certificates and approvals please refer to anderol.com or the Product Data Sheet

For more information about our products, please consult the Product Data Sheets (PDS) and Material Safety Data Sheets (MSDS).

Anderol® is one of the most respected brands in the lubricants world thanks to the quality of our products. The application of **Anderol®** products cuts maintenance requirements usually by half, improves operating efficiency and increases machine life significantly.

PACKAGING

INFORMATION

Anderol® Food Grade lubricants are available in the following packaging*

- IBC 1000 Liters
- Drum 208 Liters
- Pail 20 Liters
- Pail 5 Liters (in boxes of 4 x 5 Ltr)¹
- Pail 1 Liter (in boxes of 12 x 1 Ltr)^{1,2}
- Bulk On demand

¹MOQ may apply for small packaging.

²Available on demand

Please contact our customer service.

TECHNICAL SERVICE

& SUPPORT

Our technical professionals are ready to assist you globally with your critical application needs. We can provide you with specific advice for your precise circumstances and equipment. We can monitor your equipment, reduce operating costs by reducing down time and maintenance costs, and lengthen oil drain intervals which will reduce waste. Moreover, we can train your team on lubrication and safety. The right lubricant will enhance performance, extend equipment life, save costs and protect the environment.

One of our major assets is the flexibility that we can provide in formulating products and performing (oil analysis) tests to find the best possible solution for your critical application

We will be your partner and provide you with outstanding products and customer service together with our worldwide network of technical service and sales offices, production sites, and distributors.





LANXESS

Energizing Chemistry

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Unless specified to the contrary, the values given have been established or standardized test specimens. The figures should be regarded as guide values and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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