

QUALITY LUBRICATES.



Anderol® lubricants for beer brewing

In the entire beer brewing process the use of food safe lubricants is essential to ensure consumer protection and to be compliant with HACCP regulations. Anderol® Food Grade Lubricants maximize equipment performance, efficiency and productivity. anderol.com

X Anderol®

QUALITY WORKS.

LANXESS
Energizing Chemistry

ANDEROL® LUBRICANT SOLUTIONS

FOR BEER BREWING

The use of food grade lubricants in the beer brewing process is essential for food safety and quality control. Consumer protection is the number one priority, but ensuring that the production process runs smoothly and safely is also essential to brewers.

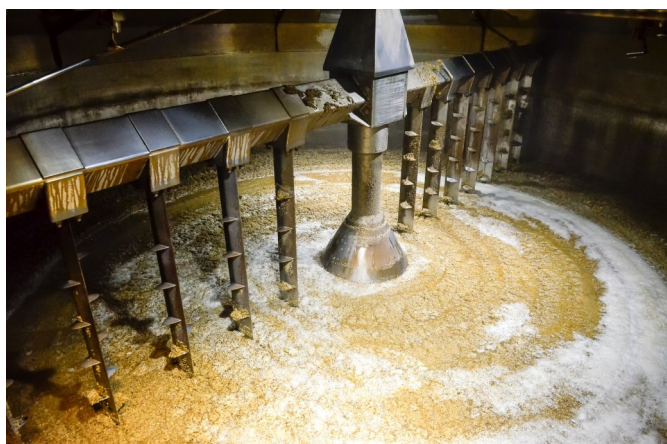
Anderol® NSF H1 approved lubricants have been specially formulated to be used in food processing environments where there is some possibility of incidental food contact. Anderol® lubricants reduce the risk of contamination of equipment, ensuring the safety of the product throughout every stage of the production process.

The unique composition of Anderol® food grade oils and greases means there is no food safety risks for the end consumer. Anderol® food grade lubricants meet all HACCP requirements (risk analysis and critical control points). They are NSF registered and Kosher and Halal certified.

Lubricants are essential to many of the applications found throughout the beer brewing process. Every one of them is an essential asset in the production operation that can either make or break the production line. The use of high quality food grade lubricants means optimal performance of equipment, compliance with food safety regulations and importantly, protection for consumers.

There are lubrication points at every stage of the process from malting and crushing through to labelling and packaging, each one with its own specific lubrication requirements. Your lubricant supplier should be able to recommend the best product for each lubrication point.

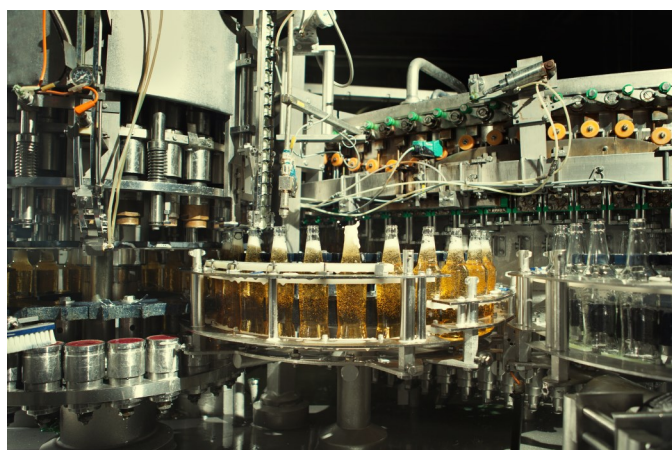
Application	Lubrication	H1 approved lubricant
1. Malting and crushing		
Pumps - enclosed gear	Gear oil	Anderol® FGH Series, or Anderol® 6000 Series
Mixer-, pump-axis, roller bearings	Grease NLGI 2, water resistant	Anderol® FGCS-2 HD, Anderol® 783-2
Mixer - gear box	Gear oil	Anderol® 6000 Series or Anderol® 7000 FG series for worm gear
2. Brewhouse		
Pumps - enclosed gear	Gear oil	Anderol® FGH Series, or Anderol® 6000 Series
Mixer-, pump-axis, roller bearings	Grease NLGI 2, water resistant	Anderol® FGCS-2 HD, Anderol® 783-2
Mixer - gear box	Gear oil	Anderol® 6000 Series or Anderol® 7000 FG series for worm gear



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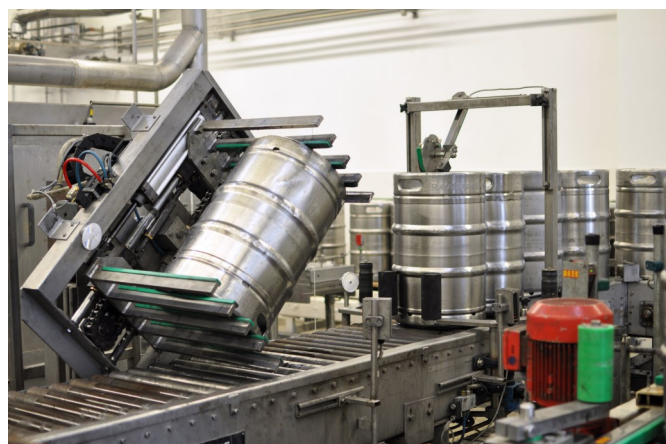
Application	Lubrication	H1 approved lubricant
3. Fermentation		
Separators (gear box)	Gear oil	Anderol® 6000 Series or Anderol® 7000 FG Series for worm gear
Separators (hydraulics)	Hydraulic oil	Anderol® FGH Series
Filter presses	Hydraulic oil	Anderol® FGH Series
4. Filling machine		
Lubrication system	Recirculation	Anderol® FGH, Anderol® 6000 Series
Rotating filler: roller bearings main axis	Automatic lubrication system	Anderol® FGCS 2, or Anderol® PQAA-2 PLUS
Rotating filler: product seal and bearing	PTFE grease, high temperatures	Anderol® HTFG 2
Roller bearings	Grease NLGI 2, water resistant	Anderol® FGCS-2 HD, Anderol® PQAA-2 PLUS
Gear box	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gears
5. Bottle/ keg rinser		
Roller bearings	Grease NLGI 2, water resistant	Anderol® FGCS-2 HD, Anderol® 783-2
High pressure pump (gear box)	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gears



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Application	Lubrication	H1 approved lubricant
6. Keg filler		
Hydraulics	Hydraulic oil	Anderol® FGH Series
Lubrication system (cams, bearings)	Total loss	Anderol® 6000 Series, or Anderol® PQAA
Roller bearings	Grease NLGI 2, water resistant	Anderol® FGCS-2 HD, Anderol® 783-2
Seal (in peroxide)	PTFE grease, high temperatures	Anderol® HTFG 2
Gear box	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gear
7. Seamer		
Seamer heads - roller bearings	Grease NLGI 1, water resistant	Anderol® 783-1 or Anderol® PQAA-1 PLUS
Seamer heads - roller bearings	Automatic lubrication system	Anderol® 783-00
Chain conveyor	Chain oils or Grease NLGI 2, water resistant	Anderol® series or Anderol® 783-2
Lubrication system	Total loss or recirculation	Anderol® 6000 Series or Anderol® PQAA Series
Lubrication system	Recirculation (incl. seamer heads)	Anderol® FGH Series
Roller bearings	Grease NLGI 1 or 2, water resistant	Anderol® 783 Series or Anderol® FGCS-2 HD
Gear box	Gear oil	Anderol® 6000 Series
Main drive - gear box	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gear



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Application	Lubrication	H1 approved lubricant
8. Keg closer		
Seal (in peroxide)	PTFE grease, high temperatures	Anderol® HTFG 2
Gear box	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gear
Hydraulics	Hydraulic oil	Anderol® FGH
9. Labelling and packaging		
Gear box	Gear oil	Anderol® 6000 Series, or Anderol® 7000 FG Series for worm gear
Gear box—aggregate	Gear oil	Anderol® 6000 Series or Anderol® PQAA Series
Lubrication system	Recirculation	Anderol® 6000 Series or Anderol® FGH Series
Lubrication system	Chain oil	Anderol® 6000 Series or Anderol® PQAA Series
Roller bearings	Grease NLGI 1 or 2, water resistant	Anderol® 783 Series or Anderol® FGCS-2 HD
Roller bearings - hot seal	Grease NLGI 2, high temperature	Anderol® 783 Series or Anderol® FGCS-2 HD
Shrink tunnel - lubrication system	Chain oil, high temperature	Anderol® 6000 Series, or Anderol® CHAIN OIL XL 220 FG
10. Compressors		
Cleaning - air compressors	Inert compressor oil	Anderol® C-NRT FG Series
Moving liquids	Compressor oil	Anderol® FG XL series, Anderol® SYNcom FG HiPerf 46 Anderol® FG S series



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Anderol® FGCS-2 HD is a PAO based synthetic heavy duty food grade calcium sulfonate complex grease. Ideal for 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. This grease can withstand the frequent water wash-outs.

Anderol® 783 range are synthetic hydrocarbon (PAO) based aluminum complex thickened greases designed for use in food processing machinery. They are non-toxic, high quality general-purpose greases and can satisfy a wide variety of applications, even under high temperatures, high loads and water exposure. Available in consistencies NLGI-0, 00, 1 and 2.

Anderol® FGH range is available in the grades ISO VG 32, 46, 68 and 100.

A synthetic Hydraulic oil based on a mixture of specially selected non-toxic synthetic polyalphaolefins combined with a high performance additive Technology.

Recommended for hydraulic systems in food processing machinery. Also recommended for chains, vanes, canning and bottling machinery.

Anderol® FG XL range is available in the grades ISO VG 15, 32, 46, 68, 100 and 150.

A next generation synthetic compressor and vacuum pump oil based on a mixture of specially selected non-toxic synthetic polyalphaolefins combined with a high performance additive technology. This advanced formulation provides additional detergency properties preventing lacquer and varnish formation.

Recommended for use in rotary-screw compressors and other rotating equipment applications where incidental food contact may occur.

Anderol® 6000 range is available in the grades ISO VG 150, 220, 320, 460 and 680.

A synthetic gear oil based on a mixture of specially selected non-toxic synthetic polyalphaolefins with a specially developed additive system providing excellent oxidative and thermal stability.

Recommended for use in gear sets, excluding Worm Gears *), bearings, circulating oil systems and chains.

*) for Worm Gears **Anderol® 7000 FG range** is recommended.

Anderol® 7000 FG range is available in the grades ISO VG 150, 220, 320 and 460.

A high performance product, designed primarily for industrial worm gear applications in the food & beverage industry. It may also be considered as a general purpose gear lubricant or to lubricate chains and ways.

This fluid is a synthetic Polyalkylene Glycol (PAG) based fluid that provides excellent thermal and oxidative stability, load carrying ability and sludge-free operation over a wide temperature range. The PAG base stock is enhanced with a special mixture of additives providing thermal oxidation stability and anti-wear performance.

Recommended for use in worm gears, chains and ways, including high water containing applications.

Anderol® SYNcom FG HiPerf 46 is an H1 High Performance Screw Compressor oil with extreme long oil life. Suitable for Rotary Screw compressors. Very low deposit formation results in clean machinery lubrication.

Anderol® HTFG 2 is a food grade high temperature grease, PTFE thickened and is chemical resistant and provides lubrication at temperatures up to 300°C.

Anderol® FG S Series is an H1 semi-synthetic screw compressor lubricant. Available in ISO VG 32, 46, 68, 100.

Anderol® CHAIN OIL XL 220 FG is a high temperature synthetic (PEO) based food grade chain oil. Very suitable for conveyor systems in tunnel and spiral ovens, printing and coating operations, other applications requiring a high temperature bearing, cam or slide lubricant.



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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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