

QUALITY LUBRICATES.



Anderol® lubricants for industrial bakeries

In industrial bakeries, 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.

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X Anderol®

QUALITY WORKS.

LANXESS
Energizing Chemistry

ANDEROL® LUBRICANT SOLUTIONS

FOR INDUSTRIAL BAKERIES

Anderol offers a portfolio of innovative food grade lubricants that fully comply with all HACCP (Hazard Analysis and Critical Control Point) food safety regulations, serving a wide range of applications and industries. Backed by years of experience and a pedigree of technical leadership, our portfolio of products supports a variety of markets, where equipment performance, efficiency and productivity are paramount.

Anderol® Synthetic and White Oil-based lubricants perform better in several critical areas than many widely used conventional and other food grade lubricants and can be used in the most severe, heavy-duty applications throughout your entire manufacturing operation. Driven by commitment to customer satisfaction, we have designed our products to meet or exceed the increasing demands of the industries we serve.

The benefits Anderol® food-grade lubricants

- High solubility, suitable for operating in the presence of baking dusts and residues
- Good hydrolytic stability to cope with high moisture levels during proofing
- High thermal stability to cope high temperature in ovens
- Good low temperature properties to operate in freezing tunnels
- Extended lubricant life
- Less lubricant used, thus minimised waste/disposal
- Superior protection of equipment
- Low deposit formation
- Extended machinery life
- Reduced down time and maintenance costs
- Superior performance
- Improved food safety
- Tailor made solutions
- Kosher and Halal certified, NSF registrated and produced in a 21469 - 2006 certified plant

We are a world leader in high-performance synthetic lubricants, used in demanding applications. Anderol® Industrial 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.



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The first step in the bread making process is dough preparation. Continuous or batch mixing with manual or automatic bowl handling. Followed by the dough make-up, proofing and finishing.

Dough make-up may include dough dividers, rounders, moulders, and cutters for high performance production. The dough pieces are either deposited into the strapped pans waiting underneath the moulder, or handled by a high performance depositor for more sophisticated breads such as rolls.

Proofing includes a swing tray or step proofer, and finally finishing the dough with seeds, dust or extra dough forming.

Application	Lubrication	H1 approved lubricant
1. Mixer		
Bearings	Grease NLGI 2, water-resistant	Anderol® 783 Series or Anderol® FGCS-2HD
Gear box	Gear oil	Anderol® 6000 Series or Anderol® PQAA Series
2. Dough make-up		
Bearings	Gear oil	Anderol® 6000 Series
Chains	Chain oil	Anderol® CHAIN OIL XL 220, Anderol® 6000 Series
Gearbox	Gear oil for worm gears	Anderol® 7000 FG Series
Cutting	Release agent	Anderol® DDO
3. Proofing and Finishing		
Bearings	White oil, gear oil	Anderol® PQAA Series
Chains	Chain oil	Anderol® CHAIN OIL XL 220 FG
Gear box	Gear oil (worm gears)	Anderol® 7000 FG Series
Hydraulics	Hydraulic oil	Anderol® FGH Series
Conveyor	Protective layer / release agent	Anderol® DDO or Anderol® PQ CAL
Conveyor	Sugar dissolving oil	Anderol® Sugar Dissolving Oil
Compressor	Compressor oil	Anderol® SYNcom FG HiPerf 46, Anderol® FG XL Series or Anderol® FG S



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Tunnel or spiral ovens operating at high temperatures require lubrication that can withstand the heat, does not form lacquer, deposits or smoke, and delivers a high performing lubricating film.

Once the bread is baked, it is left to cool (and freeze) down before packaging stage.

Application	Lubrication	H1 approved lubricant
4. Oven		
Chains	Chain oil	Anderol® CHAIN OIL XL 220 FG
Gear box	Gear oil (worm gears)	Anderol® 7000 FG Series
Conveyor	Heat transfer fluid	Anderol® PQ CAL
Bearings	Grease, general purpose	Anderol® 783 Series
5. Cooling and freezing systems		
Bearings	Grease NLGI 2, Water resistant	Anderol® FGCS 2HD or Anderol® FGCS 2 PLUS, or Anderol® 783-2
Chains	Chain oil (low temp)	Anderol® 6000 Series or Anderol® FGH Series
Gear box	Gear oil (low speed system)	Anderol® 6000 Series or Anderol® 7000 FG Series (for worm gear)
Compressors	Compressor oil for Ammonia refrigeration systems	Anderol® RCF-P 68 FG



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FOR INDUSTRIAL BAKERIES

Via the cooling conveyors, the baked products are moved to the slicing and packing equipment.

Application	Lubrication	H1 approved lubricant
6. Conveying		
Conveyor	Protective layer	Anderol® DDO or Anderol® PQ CAL
Roller Bearings	Grease NLGI 2, water resistant for high speed bearings, or Grease general purpose	Anderol® FGCS-2 PLUS, or Anderol® PQAA Series
Chains	Chain oil (low temperature)	Anderol® FGH Series
Gear box	Gear oil	Anderol® 6000 Series
7. Packaging		
Bearings	Grease NLGI 2, water resistant	Anderol® FGCS –2 HD, Anderol® 783-2
Chains	Chain oil	Anderol® 6000 Series, Anderol® FGH Series
Gear box	Gear oil	Anderol® 6000 Series,
Vacuum pump	Vacuum pump oil	Anderol® FG XL Series
Pneumatic arms		Anderol® ALL 5
Conveyor	Protective layer	Anderol® DDO
Shrink tunnel	Chain oil high temperature	Anderol® CHAIN OIL XL 220 FG



ANDEROL® LUBRICANT SOLUTIONS

FOR INDUSTRIAL BAKERIES

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® FGCS-2 PLUS is a PAO based synthetic food grade calcium sulfonate complex grease. Ideal for high speed bearings under harsh conditions in the presence of heat and water. This grease can withstand the frequent water wash-outs.

Anderol® 783 Series 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 Series 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 Series 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 Series 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 Series** is recommended.

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

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

Anderol® RCF-P 68 FG Recommend for use in rotary-screw compressors and other rotating equipment applications. This product was specially designed to be used in ammonia refrigeration applications.

Anderol® DDO Lubricant for dough dividers in the baking industry, protective coatings for foodstuff, dust control agent, release agent, forming and rolling of aluminium foil, meat hooks and butcher equipment.

Anderol® Sugar Dissolving Oil Prevents sugar build-up when applied, dissolves sugar and fondant, provides a lubricating film, insensitive to light, prevents rust and easy to rinse off, high temperature resistant, does not become rancid over time, and is easy to apply by brush, drip or spray.

Anderol® PQ CAL A non-hazardous, non-toxic and odourless high performance heat transfer fluid, which is authorised for incidental food contact.



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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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