

# QUALITY LUBRICATES.



## Lubrication solutions for the pet food industry

The production of both meat-based and plant-based pet food involves specific processes to create nutritionally balanced and safe products for pets. Food grade lubricants maintain the performance and longevity of processing machinery while ensuring the safety and quality of the final product.

**Anderol.com**

**X Anderol<sup>®</sup>**

**QUALITY WORKS.**

**LANXESS**  
Energizing Chemistry

## ANDEROL® SOLUTIONS FOR THE PET FOOD INDUSTRY

Food grade lubricants play an integral role in pet food processing and manufacturing operations. These lubricants are designed to meet strict regulatory standards and are formulated to ensure they do not pose any risk to human or animal health when they come into contact with food products. Just as human food, pet food is highly regulated to guarantee the highest standards of hygiene, safety and quality.

Anderol Specialty Lubricants is a renowned industry leader, providing top-notch lubrication solutions. Anderol® high-performance synthetic food grade lubricants ensure equipment operates safely, extend re-lubrication intervals, facilitate enhanced production efficiency by reducing downtime for lubrication and maintenance.

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. Anderol® food grade lubricants meet all HACCP requirements (risk analysis and critical control points). They are NSF registered and Kosher and Halal certified.

### Anderol® Specialty Lubricants for pet food production

- Excellent mechanical stability
- Suitable for operating in high humidity
- Reduced friction and wear
- Reduced re-lubrication intervals, lengthened equipment lifetime
- Improved equipment safety
- Protection against corrosion, water, moisture and chemicals
- Elimination of food waste contamination
- Elimination of food allergens and contaminants
- NSF H1 registered and Kosher and Halal certified

### Main products

- Anderol® FGCS-2 HD is a PAO based grease for heavy duty applications including high loads, wide temperatures ranges and slow speeds.
- Anderol® FGXL Series are synthetic high-performance compressor and vacuum pump lubricants.
- Anderol® 6000 Series are chain oils with superior anti-corrosion properties and excellent load-carrying capacities.
- Anderol® PG Supreme Gear FG Series are PAG oils for worm gears, chains, low speed gear sets.
- Anderol® FGH series are hydraulic fluids that can also be used in chains and valves.
- Anderol® SYNcom HiPerf FG series synthetic high performance compressor lubricants with extreme long life.



# ANDEROL® SOLUTIONS FOR THE

## PET FOOD INDUSTRY

### Meat based pet food

Meat-based pet food is primarily formulated for carnivorous animals, which includes both cats and dogs. Meat-based food could be dry food or wet food and their production processes are very different.

The production of dry pet foods involves blending dry ingredients with water and steam to create a dough and increase the temperature. The mixture then goes through an extruder where it is heated under pressure and subsequently pushed through a die machine to form kibbles. The kibbles undergo drying, cooling, and a spray coating process before they are packaged.

The production of wet pet food includes mixing and grinding of ingredients that may be cooked and mixed with gravy or jelly, then filling of cans, trays or pouches, followed by cooking and cooling, and lastly the products are packed ready for distribution.

Application	Lubrication	H1 approved lubricant
<b>Industrial freezers/coolers</b>		
Ammonia/ CO <sub>2</sub> refrigerators	Compressor oil, compatible with ammonia/ CO <sub>2</sub> refrigerants	Anderol® RCF-P 68 FG
<b>Meat grinders and mixers</b>		
Gear box	Gear oil	Anderol® 6000 series, Anderol® PG Supreme Gear FG series for worm gears
Bearings	NLGI 2 Grease, Heavy Duty	Anderol® FGCS-2 HD
Release agent	Vegetable oil	Anderol® DDO
Conveyors	Chain oil	Anderol® 6000 series
<b>Cooking</b>		
Bearings	NLGI 2 Grease, Heavy Duty	Anderol® FGCS-2 HD
Gear box	Gear oil	Anderol® 6000 series or Anderol® PQAA Series



**ANDEROL® SOLUTIONS FOR THE**  
**PET FOOD INDUSTRY**

Application	Lubrication	H1 approved lubricant
<b>Extruder for kibbles / Pellet press</b>		
Bearings	NLGI 2 Grease, Heavy Duty	Anderol® FGCS-2 HD
Gears	Gear oil	Anderol® 6000 series or Anderol® PQAA series
<b>Packaging</b>		
Hydraulic filling	Hydraulic oil	Anderol® FGH series
Compressors	Compressor oil	Anderol® FG XL series, Anderol® SYN-com HiPerf FG series, Anderol® FG S series
Vacuum pump	Compressor oil	Anderol® FG XL series
Conveyors	Chain oil	Anderol® 6000 series



# ANDEROL® SOLUTIONS FOR THE

## PET FOOD INDUSTRY

### Plant based pet food

Plant based pet food is especially for herbivorous animals such as rodents, horses, cattle and poultry, and usually consists of blends of grains, pressed hay/alfalfa and dried fruits and vegetables and herbs.

The first step in the production process involves ingredient selection and preparation, elimination of contaminants and cleaning. Then ingredients are mixed and blended. Hay/alfalfa is pressed into pellets, and for mixed feed then blended with the grains and other ingredients. The final step is packaging of the feed in small to 25 kg big bags.

Application	Lubrication	H1 approved lubricant
<b>Ingredient selection and preparation</b>		
Compressors	Compressor oil	Anderol® FG XL series, Anderol® SYN-com HiPerf FG series, Anderol® FG S series
Conveyors	Chain oil	Anderol® 6000 series, Anderol® PQAA series
Bearings	NLGI 2 grease, water resistant	Anderol® FGCS-2 HD
<b>Pellet press</b>		
Bearings	NLGI 2 Grease, Heavy Duty	Anderol® FGCS-2 HD
Gears	Gear oil	Anderol® 6000 series or Anderol® PQAA series or Anderol® PG Supreme Gear FG series for worm gears
<b>Mixer/ Blender</b>		
Gears	Gear oil	Anderol® 6000 series or Anderol® PQAA series
<b>Packaging</b>		
Hydraulics	Hydraulic oil	Anderol® FGH series
Compressor	Compressor oil	Anderol® FG XL series, Anderol® SYN-com HiPerf FG series, Anderol® FG S series



# ANDEROL® ALFALFA PELLETS

## SUCCESS STORY

### The situation

An alfalfa pellet manufacturer in Spain suffered frequent failures and breakdowns in their alfalfa pellet presses, leading to high costs of maintenance and spare parts.

Alfalfa is highly fibrous and resists to compression. The pellet mill equipment is working under heavy duty circumstances with high loads, steam and heat involved.



### The solution

In the bearings inside the pressing rollers in the pellet press we replaced the lithium complex grease based on mineral oil with the synthetic PAO based Anderol® FGCS-2 HD grease for heavy duty applications. The Anderol® FGCS-2 HD grease has a much higher welding load.

The worm gear oil inside gearbox of the alfalfa pelletiser has been replaced by PAG based Anderol® PG Supreme Gear 220 FG oil.



### The result

Switching to Anderol® products stopped bearing and roller failures or breakdowns. The savings in spare parts and labour hours far exceeded the cost of purchase difference.

Oil and grease consumption has dropped as the Anderol® products have a longer lifecycle



- Optimized machine efficiency and reliability
- Lower oil consumption
- Compliant with food safety regulations



Anderol BV  
Groot Egtenrayseweg 23  
5928 PA Venlo  
The Netherlands

[www.anderol.com](http://www.anderol.com)  
[info@anderol.com](mailto:info@anderol.com)  
+31 (0)77 396 0340

North America  
+1 833 LANXESS  
[customer.care@lanxess.com](mailto:customer.care@lanxess.com)

South & Central America  
+55 19 3522 5083  
[atendimento.cliente@lanxess.com](mailto:atendimento.cliente@lanxess.com)

Asia Pacific  
+86 21 6109 6666  
[Orders.apac@lanxess.com](mailto:Orders.apac@lanxess.com)

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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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