

QUALITY LUBRICATES.



Anderol® FGCS-2 HD

H1 synthetic heavy duty calcium sulfonate complex grease. The inside of a pellet mill is a harsh environment for lubricants with extreme pressure, heat, and moisture. Anderol® quality protects equipment, cuts maintenance costs and reduces production downtime. anderol.com

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QUALITY WORKS.

LANXESS
Energizing Chemistry

ANDEROL® FGCS-2 HD

IN PELLET MILLS

In pellet mill applications used for the production of plastic, biomass and animal feed pellets, there is constant presence of extreme pressure, heat, moisture, and in some cases contaminants. High quality lubrication is required to prevent the breakdown of the lubrication film that protects the equipment from metal-to-metal contact, wear and corrosion which result in high maintenance costs, production downtime and replacement of machinery parts.

Grease especially is a vital component in pelletizers and required in large quantities. Pellet mill OEM's often recommend lithium complex greases (often not food grade approved) as they are widely available and offer adequate protection. However, lithium complex greases are inferior to calcium sulfonate greases when it comes to mechanical stability (roll stability), high temperature capability (dropping point), and wear protection in the presence of water. A premium grease that can withstand the extreme conditions is the Anderol® FGCS-2 HD, which is developed with patented technology. HD stands for heavy duty as it is exceptionally suitable for low to medium speed bearings operating in harsh conditions (welding load 400 kg) with periods of infrequent lubrication. Anderol® FGCS-2 HD will increase production capacity, minimize maintenance costs and ultimately reduce operation costs.

■ 25 grams of lithium complex grease are required per 1 ton of feed. Using a calcium sulfonate complex grease will reduce the amount of grease needed by 10 to 20% per ton feed.

The pelleting process

1. Feeder: A dosing screw carries the product into the press room where the actual pelletizing takes place
2. Conditioner: Steam is homogeneously mixed with ingredients at a temperature up to 95°C
3. Thermal treatment of the mixture
4. Roller: The mash is pushed through the holes of a die to form the pellets
5. Ring die: A knife systematically cuts the pelletized product from the die

Anderol® lubricants for pelletizers

| Anderol® Lubricant | NSF H1 | NLGI | Base oil | Viscosity (cSt) | Thickener | Temp (°C) | Application |
|-----------------------|--------|------|-----------------|-----------------|---------------------------|------------|-------------|
| Anderol® FGCS-HD 2* | Yes | 2 | Synthetic - PAO | 400 | Calcium sulfonate complex | -30 to 175 | Bearings |
| Anderol® 783 - 2 | Yes | 2 | Synthetic - PAO | 350 | Aluminum Complex | -45 to 160 | Bearings |
| Anderol® 6000* | Yes | - | Synthetic - PAO | 150 to 680 | - | -40 to 200 | Gears |
| Anderol® 5000 Series* | No | - | Synthetic - PAO | 150 a 1000 | - | -40 to 200 | Gears |

*Anderol® 5220, Anderol® 6220 and Anderol® FGCS-2HD are approved by Riber Peletizadoras



ANDEROL® FGCS-2 HD

SUCCESS STORY

The situation

An animal feed manufacturer in South America was using a mineral oil based lithium complex grease for its pellet mill equipment. The product was not resistant to water washout and lost lubrication film during high pressure and friction. This resulted in recurring equipment failures: frequent production stops, high maintenance costs and regular replacement of machine parts.

The solution

The customer switched to **Anderol®** FGCS-2 HD – an H1 heavy duty calcium sulfonate complex grease characterized by exceptional mechanical stability, permanent lubrication film, high load carrying performance, reduced wear and excellent resistance to water and corrosion. This product is ideal for pelletizer roller bearings lubrication.

The result

Even under the high humidity, pressure, friction and temperature, **Anderol®** FGCS-2 HD dramatically decreased bearing and pressure roller failures. Productivity increased because the equipment ran without stopping for eight months continuously, whereas previously there had been frequent production stops.

The customer saved money on spare parts and manpower and increased production levels resulting in increased sales

Anderol® FGCS-2 HD is suitable for both wood pellets and animal feed pellets as it is NSF H1 registered and awarded with Kosher and Halal certifications.





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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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