CASSIDA food grade lubricants

Innovative lubricants need experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. Our CASSIDA Team will be glad to advise on the right lubrication for each application as well as the support services we can offer.





Food Grade Lubricants & Services







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LUBRICANTS.
TECHNOLOGY.
PEOPLE.



LUBRICANT SOLUTIONS FOR THE FOOD & BEVERAGE INDUSTRY



NSF registered ISO certified



Nonfood Compounds Program Listed

ISO 21469 certified Kosher certified



Halal certified

FUCHS is committed to providing high performance, superior food grade lubricants to the food, beverage and pharmaceutical industries as well as related application fields. With a wide and comprehensive range of NSF H1 approved lubricants, there is a suitable food grade lubricant for every stage of the manufacturing process.

CASSIDA food grade lubricants have been specifically developed to meet the highest international food safety standards. Synthetic, non-toxic and odourless, the CASSIDA range helps to ensure safe and efficient food production whilst providing protection for your brand and reputation.

As well as supplying you with the right food-grade lubricants, we also assist our customers by providing a tailored support package to meet each manufacturing plant's individual requirements. Site surveys, assistance with audit compliance, and storage solutions are just some of the services our CASSIDA specialists can provide.



FOOD GRADE LUBRICANTS

It is vital that manufacturers understand the importance of using food grade lubricants in food and beverage manufacturing, processing and packaging plants to reduce the risk of costly product recall and damage to brand reputation. Regulations allow contamination of up to 10 parts per million with food grade lubricants compared with the zero parts per million contamination allowed with non-food grade lubricants.

CASSIDA is a comprehensive range of high performance, food grade lubricants providing solutions to all manufacturers in the food, beverage and clean environment industries.



NSF **REGISTERED**

The CASSIDA range meets or exceeds the stringent requirements of the food and beverage industry, providing you with peace of mind and reassurance. All of the lubricants in the CASSIDA range are NSF H1 registered as suitable for use on machinery where incidental contact with lubricant may occur.

Also included in the CASSIDA range are Direct Contact lubricants which are both NSF H1 and 3H registered for safety, meaning the lubricants are acceptable for incidental contact with food as well as for use as release agents on hard surfaces which are in direct contact with meat and poultry.



ISO 21469 **CERTIFIED**

Our highly modern FUCHS Lubritech GmbH Kaiserslautern facility utilises all of the latest technology and machinery, and is ISO 21469 certified. ISO 21469 specifies the hygienic requirements for the formulation, manufacture, use and handling of lubricants that may come into incidental contact with food during processing – providing a complete audit trail for the lubricants. The CASSIDA oils and greases are certified to ISO 21469 standard, providing assurance that the products are formulated and manufactured utilising GMP (Good Manufacturing Practices) in a hygienic and safe environment.



KOSHER & HALAL

The CASSIDA products fulfil the strict requirements of both Jewish and Muslim laws and regulations. The respective Kosher and Halal certificates confirm our guarantee to provide the highest possible level of product and food safety.

ALLERGEN & NUT FREE

The CASSIDA products do not contain potential allergens or intolerance inducing ingredients (such as gluten, nuts, milk), ensuring our products can be used throughout manufacturing plants with no concern of use in this respect.

THE FUCHS GROUP

FUCHS is the world's largest independent lubricant manufacturer, supplying superior products and services to many diverse market sectors. Expertise exists in all automotive and industrial applications in addition to specialist sectors such as pharmaceuticals and wire rope. The FUCHS Group comprises of 55 operating companies with 34 production plants worldwide.

FUCHS LUBRITECH

The CASSIDA food grade lubricants range is manufactured at FUCHS Lubritech, headquartered in Kaiserslautern (Germany), which is an independent unit within the FUCHS Group. LUBRITECH stands for "LUBRIcation" and "TECHnology", and FUCHS Lubritech has been operating for over 60 years.

The FUCHS and FUCHS Lubritech Group offer global availability of the CASSIDA range as well as the other lubricants from the comprehensive FUCHS portfolio. Customers have available technical experience on a global scale as well as providing access to international fluid technology.

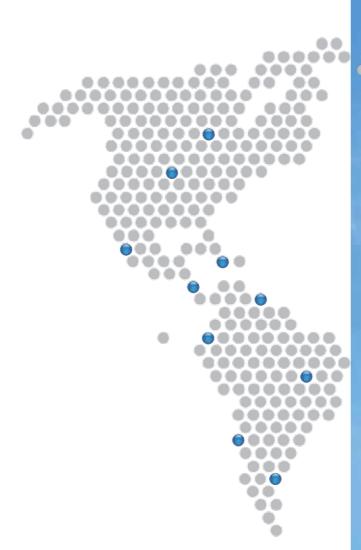
UK GROUP PROFILE

The headquarters of the UK subsidiary of the FUCHS Group is located in Stoke-on-Trent. We manufacture a wide variety of products in our highly automated production plant, from engine oils through to petroleum jellies. We have over 100 years' experience of manufacturing and supplying lubricants within the UK and have demonstrated excellent performance in all aspects of lubricant supply including lubricant quality, timely supply and health and safety compliance.

Our UK based CASSIDA specialists can assist customers from choosing the right lubricant through to tailored after sales support. FUCHS is able to offer the whole range of lubricants from bulk engine oil through to specialist CARBAFLO PFPE greases - we are in the unique position of being able to supply a vast and diverse product range straight from the manufacturer.

ORIGINAL EQUIPMENT MANUFACTURER **APPROVALS**

Our customers benefit from the excellent quality of the CASSIDA portfolio, which has been confirmed by numerous OEM approvals from well-known manufacturers of production and manufacturing equipment. From hydraulic systems and transmissions, to bearings and compressors, our customers profit from close co-operation between FUCHS and OEMs during the development phase of each lubricant.



YOUR GLOBAL PARTNER



LUBRICANTS FOR EVERY MANUFACTURER



ANIMAL FEED

Animal feed must meet globally accepted standards of safety to safe guard the human chain. It is recommended that food grade lubricants are used for feed production, particularly in pellet press bearings and hammer mills as these areas pose particular risk due to their close proximity to the feed and danger of contamination to finished pellets. The CASSIDA range includes greases, such as FM GREASE HD 2 which provides outstanding performance in total loss lubrication systems, such as those found in pellet mills. Using CASSIDA products can help producers to comply with EU feed regulations whilst actively preventing wear in critical machinery components.



BAKERY & CONFECTIONERY

The baking process involves high humidity and elevated temperatures, requiring lubricants capable of performing in extreme environments. We can provide the right high performance lubricants capable of working at temperatures up to 300°C; CASSIDA CHAIN OIL HTE and CASSIDA CHAIN OIL HTX have been specifically designed to work well in the high temperatures found in automated baking ovens. Our spiral freezer lubricant, CASSIDA CHAIN OIL LT is capable of providing high performance in operating conditions down to -50°C. FUCHS can also supply food grade lubricants for other stages of the baking process from gear lubricants for the mixer to greases for bearings found in the oven.



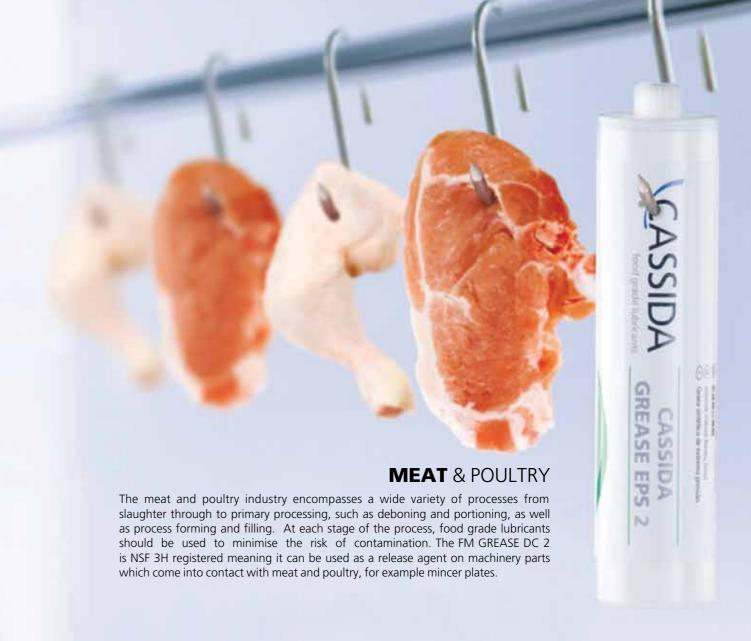
BEVERAGE & BREWING

The manufacture and packaging of beverages requires lubricants which are able to deliver high performance, even when there is water spray and liquid contamination present. FUCHS can provide the food grade lubricants required at each stage of the processing line including blow moulder, filler, seamer, steriliser and capper. Our NSF H1 registered range includes products highly suited for use on filling taps, flow meters and seals, such as CASSIDA GREASE MD 2, which provides excellent resistance to hot water, steam and disinfectant solutions in a wide range of operating temperatures.



DAIRV

The dairy process involves severe conditions from extreme heat to freezing temperatures as well as a high presence of moisture. Ensuring food grade lubricants are used throughout the process, from pasteurising to packaging, can help minimise the risk of costly product recalls due to contaminated products. The CASSIDA range incorporates a wide variety of lubricants for each stage of the dairy manufacturing process from homogenisation, pasteurisation and sterilisation through to cold and freezer storage of the finished product.



PHARMACEUTICAL

Whilst food grade lubricants are mandatory for certain parts of the process, such as the tablet press, it is advisable that they are used throughout the pharmaceutical manufacturing process to minimise the risk of contamination of the end product. Proper punch lubrication is vital to the continuous operation of any tablet press; the CASSIDA FLUID FL or CASSIDA GREASE EPS ranges are suitable for use on most high-speed presses. For optimum efficiency, it is important to use the right cleaning and lubricating product, such as CASSIDA FLUID FL 5, which can effectively lift residues from punches and cams whilst maintaining the food grade integrity of the process.



SUGAR PROCESSING

Manufacturers in the sugar industry require all of the high performance lubricants used in other food manufacturing industries such as chain oils, hydraulic fluids and gear lubricants as well as specialist fluids capable of dissolving sugar deposits. The comprehensive CASSIDA range includes FM SUGAR DISSOLVING FLUID, which will dissolve sugar and sugar based deposits on machinery leaving a protective, oil based film. The biostatic fluid can be used neat or diluted and is easily washed away with cold water, providing the ideal solution for the sugar processing industry.



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SUPPORTING THE FOOD & BEVERAGE INDUSTRY

CASSIDA LUBE CENTRE



CUSTOMER FOCUS

We believe that providing the right assistance to customers is just as important as providing high quality lubricants. By building a strong relationship with our customers, we can ensure the right level of technical support is provided to each manufacturing site.

Our support services include 24 hour technical help, oil condition monitoring, failure analysis and diagnosis, customer training on lubricant best practices, stock management and more.



LUBRICATION **CRITICAL CONTROL POINT** (LCCP) SURVEYS

Our CASSIDA specialists can carry out a survey of all the lubrication points in your manufacturing facility. Following on from a site visit from one of our trained technical team, customers will be provided with a report on each lubrication point, including any areas for improvement, and the report will be discussed in full. Customers will be assisted with improving plant efficiency, reliability and safety.

Our CASSIDA food grade lubricant (LCCP) surveys can be used by customers towards their Hazard Analysis and Critical Control Points (HACCP) audit compliance.



LUBRICATION AUDIT COMPLIANCE MANUAL

We provide our customers with a personalised Lubrication Audit Compliance Manual which contains a list of food grade lubricants on site, technical and safety data sheets, NSF registration letters, ISO 21469 certificates and other important documentation.

The Lubrication Audit Compliance Manual helps customers as a daily reference guide, as well as forming part of your audit compliance.



DISPENSING SOLUTIONS

To facilitate ease of usage, we can provide customers with Oil Safe containers, grease gun pre-lubricated with food grade lubricant, and robust lever pumps.

We want to help customers wherever possible, which is why our grease cartridges and aerosols are colour coded to aid identification.





To assist customers with best lubricant practices and meeting audit requirements, we can supply customers with a sturdy stainless steel storage stand, which holds eight 22L oil containers or 19kg grease kegs. The CASSIDA Lube Centre features a retaining bar to ensure oil can easily be pumped into the Oil Safe containers without movement of the keg. The removable drip tray caters for any spillages which may occur whilst dispensing.

The top of the CASSIDA Lube Centre is lockable, making it ideal for storing grease cartridges, aerosols, and your Lubrication Audit Compliance Manual.

APPLICATION GUIDE

APPLICATION	SYMBOL	PRODUCT	BENEFITS
7.1.1 2.C/111-011	31.III302	11100001	DENETITO
Bearings - Rolling Element Regular Load		CASSIDA GREASE RLS Series	Multi-purpose for regularly loaded bearings Good adhesive properties and water resistance
Bearings - Rolling Element Extreme Pressure		CASSIDA GREASE EPS Series CASSIDA GREASE GTS 2	Outstanding protection against wear and rust Calcium sulfonate complex multipurpose grease suitable for bearings under extreme conditions and/or high speed
Bearings - Rolling Element Heavy Duty		CASSIDA GREASE HDS 2 CASSIDA GREASE GTX 2	Protection for heavily loaded or slow moving bearings with excellent water resistance Calcium sulfonate complex grease for heavily loaded or slow moving bearings
Bearings - Rolling Element High Temperature		CASSIDA GREASE HTS 2	Operating temperature up to + 200°C (peak up to + 220°C)
Bearings - Rolling Element Extremely High Temperature		CASSIDA GREASE FC 1 · 2	Operating temperature up to + 300°C Excellent resistance against agressive chemicals
Bearings - Rolling Element Low Temperature		CASSIDA GREASE LTS 1	Operating temperature down to - 50°C
Can Seamer Lubrication Systems and Gearboxes Can Seamer Lubrication System, Ferrum Can Seamer Lubrication Systems, Total Loss		CASSIDA FLUID GLE Series CASSIDA FLUID CR 100 FM GEAR OIL TLS 150	Keeps machine clean and protects against wear and corrosion Keeps machine clean and protects against wear and corrosion White mineral oil fluid for enhanced performance for total loss systems
Can Seamer Roll Head Bearings (grease lubricated)		CASSIDA GREASE RLS 1	Protects against wear and corrosion Good resistance to water washout
Chains & Conveyors		CASSIDA CHAIN OIL Series CASSIDA CHAIN OIL LT CASSIDA CHAIN OIL SP CASSIDA CHAIN OIL HTE CASSIDA CHAIN OIL HTX	Outstanding adhesion to metal surfaces & excellent water resistance Operating temperature down to -50°C Excellent penetrating properties High temperature chain oil for bakeries (up to + 240°C) Extreme temperature chain oil (up to + 300°C)
Compressors - Rotary Vane & Screw		CASSIDA FLUID CR Series	Longer oil change intervals with less wear Does not add odour to compressed air
Direct Food Contact - Multiple Applications		CASSIDA FLUID DC Series FM FLUID DC Series FM GREASE DC 2	3H registered synthetic fluids for direct food contact applications. Use as absorber oil in edible oil production – improved hexane recovery 3H registered white mineral oil fluids for direct food contact applications 3H registered white mineral oil grease for direct food contact applications.
Gears - Enclosed Helical ● Spur Bevel ● Worm		CASSIDA FLUID GL Series CASSIDA FLUID WG Series CASSIDA GREASE EPS 00 CASSIDA GREASE GTX 0 FM GEAR OIL Series	Excellent load carrying properties for a wide range of applications Specialty worm gear oils, improved gear efficiency Excellent adhesive qualities – reduces leaks from gearbox Excellent adhesive and extreme pressure properties - reduces leaks from gearbox Fit for purpose gear oils
Gears - Open		CASSIDA GREASE HDS 00	Excellent adhesion & water resistance

CASSIDA: Fully synthetic products								
FM: Semi-synthetic or white miner	al oil based products							

Production facility certified by NSF for ISO 21469. Components approved by the US FDA for incidental contact with food. Registered by NSF International as Class H1.

This table is a guide only. Contact FUCHS to confirm product recommendations. This brochure was correct at the date of printing. Subject to change without notice.

APPLICATION	SYMBOL	PRODUCT	BENEFITS
Heat Transfer		CASSIDA FLUID DC 32 FM HEAT TRANSFER FLUID 32	Good thermal stability, long fluid life Enhanced formulation. Excellent thermal stability, optimum fluid life
Hydraulics (including air line lubrication)		CASSIDA FLUID HF Series CASSIDA FLUID FL Series CASSIDA FLUID HFS Series FM HYDRAULIC OIL Series	Long oil life, excellent filterability giving a cleaner system & longer equipment life Fully compatible with existing system components — easy to change over Superior performance, excellent filterability giving a cleaner system & longer equipment life Fit for purpose hydraulic fluids
Industrial Coolant		FM COOLANT	Water extendable fluid with outstanding anti-corrosion properties
Maintenance Sprays: General Purpose Penetrating Lubricant Silicone Fluid Multi Purpose Grease PTFE Dry Film Multi-Purpose Lubricant Direct Food Contact Grease		CASSIDA FLUID FL 5 SPRAY CASSIDA SILICONE FLUID SPRAY CASSIDA GREASE GTS SPRAY CASSIDA PTFE DRY SPRAY FM GREASE DC SPRAY	Facilitates the disassembling of seized surfaces, prevents further corrosion & seizing A quick dry spray to give 'dry film' lubrication on conveyor belts and light machinery Excellent lubrication properties and excellent corrosion protection A quick dry spray to provide 'dry PTFE film' lubrication 3H registered white mineral oil grease for direct food contact applications
Maintenance Aid		CASSIDA PASTE AP	Assembly paste – large range of applications, e.g. high-alloy steel screws to optimize tightening torque, mounting and pressing of bearings, disks, wheels and bolt
Pellet Presses & Compactors - Animal Feed		CASSIDA GREASE GTX 2 FM GREASE HD 2 · 1.5	Synthetic Calcium sulfonate complex grease for enhanced bearing life Outstanding performance – enhanced bearing life
Refrigeration Compressors - Ammonia		CASSIDA FLUID RF Series	High performance fluid, compatible with ammonia and other commonly used refrigeration gases
Rotary Cookers and Sterilizers		CASSIDA GREASE GTX 2 FM FLUID RC 150	Calcium sulfonate complex grease for heavily loaded or slow moving bearings Keeps parts clean and protects against wear and corrosion
Slideways, Linkages & Pins		CASSIDA GREASE HDS 2 CASSIDA GREASE GTX 2	Protection for heavily loaded or slow moving bearings for long equipment life Calcium sulfonate complex grease – excellent corrosion protection
Sugar Dissolving		FM SUGAR DISSOLVING FLUID	Cleans off sticky deposits in sugar processing equipment and offers excellent corrosion protection Lubricates lightly loaded bearings and slide-ways where sugar deposits are likely to form
Vacuum Pumps		CASSIDA FLUID VP Series	Extended oil drain intervals, good low temperature characteristics, excellent anti-wear performance
Valves, Taps and Fittings		CASSIDA GREASE MD 2	Lubrication of all sorts of taps, flow meters and fittings with EPDM (ethylene-propylene-diene rubber) seals, used for the handling of water, drinks and beer, including drum filling inflow valves Provides high resistance against chemicals