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LUBRICANTS FOR THE FOOD INDUSTRY

Unil®
LUBRICANTS

LIQUID TECHNOLOGY

	White oil	PAO	Polyglycol
Hydraulics	ESCA Hydro Food	ESCA Hydro P	
Gear and chain oils	ESCA Gear W	ESCA Gear P	ESCA Gear PG
Compressor oil	ESCA Compressor W	ESCA Compressor P	
Greases	Grease AL/TF 2 Polyfood Alimenta	ESCA Grease P AL ESCA Grease CA 2 400	
Compressed air lubrication	ESCA Airlube 32		
Thermal oil	ESCA Therm 35		
Sugar dissolving oil		ESCA Sugar 22	
Sprays	Food Grease ESCA Food Spray		

HYDRAULICS

Product and description	ISO VG	Basis
ESCA Hydro Food The ESCA HYDRO FOOD hydraulic oils were developed for use in the food industry. These oils are available in ISO VG 32 to 68 viscosities. ESCA HYDRO FOOD oils are recommended for the lubrication of plain bearings, bearings, cylinders and hydraulic systems. These oils pose no risk in the event of occasional contact with foods.	32 • 46 • 68	White oil
ESCA Hydro P ESCA HYDRO P is a synthetic hydraulic oil based on polyalphaolefins (PAO). The specific additives guarantee excellent anti-wear and "EP" properties. In addition, the increased viscosity index significantly improves system performance. ESCA HYDRO P oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006 standard. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	15 • 32 • 46 • 68 • 100	PAO

GEARBOX AND CHAIN OILS

Product and description	ISO VG	Basis
ESCA Gear W ESCA GEAR W is a gear oil based on white oils. The most recent additive technology was used in its development, which guarantees the excellent extreme pressure and load characteristics required in gearbox systems for the food and pharmaceutical industries. ESCA GEAR W oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006, which supports HACCP and GMP programmes. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	150 • 220 • 320 • 460 • 680	White oil
ESCA Gear P ESCA GEAR P is a synthetic high performance gearbox lubricant based on polyalphaolefins (PAO)· The most recent additive technology available was used in its development, which guarantees excellent extreme pressure and load properties required in gearbox systems for the food and pharmaceutical industries. ESCA GEAR P oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006, which supports HACCP and GMP programmes. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	150 • 220 • 320 • 460 • 680	PAO
ESCA Gear PG ESCA Gear PG is a poly(oxy)propylene based product primarily designed for applications with worm gear wheels in the food and feed industry. ESCA Gear PG oils have a high viscosity index, low congealing point and clean burning properties which ensure a sludge-free operation over a wide temperature range; they are water insoluble and can be used in a wide range of operations. ESCA Gear PG oils are ideal for the lubrication of both gearboxes and chain lubrication (including drying ovens and tunnels).	150 • 220	Polyglycol

COMPRESSOR OILS

Product and description	ISO VG	Basis
ESCA Compressor W ESCA COMPRESSOR W is a compressor oil based on white oil and was developed for use in the pharmaceutical and food industries. This oil is ideal for use in screw and rotor compressors. ESCA COMPRESSOR W oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006, HACCP and GMP programmes. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	46 • 100	White oil
ESCA Compressor P ESCA COMPRESSOR P is a synthetic compressor oil based on PAO. This oil has a very good resistance to oxidation and is highly resistant to thermal degradation. ESCA COMPRESSOR P is ideal for use in rotary screw compressors and rotor compressors in the pharmaceutical and food industries. ESCA COMPRESSOR P oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006 standard. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	32 • 46 • 68 • 100	PAO

GREASES

Product and description	NLGI	Basis
ESCA Grease P AL ESCA Grease P AL is designed for a wide range of applications including extreme temperatures, wet or saturated environments, heavy-duty applications and in places where dust or other contaminants are present. ESCA GREASE P AL contains extreme pressure and anti-wear additives for high load performance. Suitable for all flat and anti-friction bearings as well as sliding surfaces.	2	Aluminium complex PAO
ESCA Grease CA 2 400 ESCA GREASE CA 2 is a calcium sulphonate grease based on white oil. This grease has an excellent resistance to corrosion and is quite water resistant. ESCA GREASE CA 2 is recommended for the following use in the food industry: - Bearings operating under a very high load - Bearings rotating at moderate to high speed - Machines operating in very low ambient temperatures - Machinery operating in the presence of water, heat and/or extreme loads ESCA GREASE CA 2 meets or exceeds the requirements of specification K2S - 40 in accordance with DIN 51 825 and meets the requirements of the FDA 21 CFR 178.3570. This oil is H1-registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21.469: 2006, HACCP and GMP programmes. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	2	Calcium sulphonate PAO
Alimenta Lubricant for equipment that comes into contact with food or pharmaceutical products. Formulated on the basis of white pharmaceutical oil, in accordance with CODEX, with harmless additives. Used, among other things, in bearings, plain bearings, joints and other objects expected to work under normal circumstances in the food industry, pharmaceutical industry or in cosmetics factories. In the manufacture and packaging of wine, beer, mineral water. In the manufacture of flour-based foods such as pasta, bread, rusks, cakes and in the industry for the handling and packaging of meat products, fish, vegetables, fruit, dairy products.	2	Bentone White oil

Product and description	NLGI	Basis
Grease AL/TF 2 GREASE AL TF is a widely applicable aluminium complex grease with exceptional anti-wear and anti-corrosive properties. GREASE AL TF has a very low friction coefficient thanks to the balanced addition of TEFLON® and is exclusively composed of components according to the FDA list in accordance with CFR 178.3570. INS homologation with registration number 1796405. GREASE AL TF is mainly used in the canning, dairy and sugar industry, in packaging machines, bottle filling machines, fish and meat processing plants and slaughterhouses and for other applications where occasional contact may occur between the food and the lubricant such as: - plain and anti-friction bearings. - bearings of oven transport wheels. - side bearers.	2	Aluminium complex White oil
Polyfood POLYFOOD is an ultra-pressure calcium complex grease for the food industry based on white oils. All ingredients are FDA-approved for incidental food contact and NSF-H1 approved. POLYFOOD is mainly used in applications where occasional contact may occur between the food and the lubricant. Examples of these applications are: -joints -plain bearings and heavy duty roller bearings at speeds of 500 to 4000 rpm. -guide rails	1.5	Calcium complex White oil

SPRAY

Product and description	NLGI	Basis
Food Grease Officially approved NSF-H1 grease for incidental food contact, colour and odourless, ideal for the food industry. It poses no health risk whatsoever. All components of the aerosol comply with FDA requirements, paragraph 21 CFR 178.3570. Absorbs quickly, is water resistant and temperature-resistant between -20°C and +120°C. Forms a layer that reduces surface wear and provides long-term protection against oxidation. Shake well before use. Store at a temperature between 5°-25°C.	2	Aluminium Complex
ESCA Food Spray Lubricant, anti-grip and anti-corrosion agent. Penetrates deeply into all mechanical parts and leaves a thin film that protects against corrosion. NSF HI approved.	2	White oil

COMPRESSED AIR LUBRICATION

Product and description	ISO VG	Basis
ESCA Airlube 32 Intended for the lubrication of pneumatic material, particularly recommended for the lubrication of pneumatic equipment where the lubricant may occasionally come into contact with food.	32	White oil

DEGREASER

Product and description	ISO VG	Basis
ESCA FOOD DGR A chlorine-free solvent used for degreasing mechanical parts of any type of metal in the food industry. This fluid is composed exclusively of components listed on the FDA 21 CFR 178.3530. In this way, all the conditions for an H1 certification are met.	2	Solvent

THERMAL OIL

Product and description	ISO VG	Basis
ESCA Therm 35 ESCA THERM 35 is recommended for use in heat transfer systems within the food processing industry. The product has excellent thermal stability and can be used during the liquid phase between -15°C and 325°C. The maximum film temperature is +345 °C and must never be exceeded. ESCA THERM 35 is a non-hazardous, non-toxic and odourless heat-conducting lubricant approved for occasional food contact (INS H1). This product meets the requirements of the FDA, 21 CFR 178.3620 (b).	32	White oil

SUGAR DISSOLVING OIL

Product and description	ISO VG	Basis
ESCA Sugar 22 ESCA SUGAR 22 is a low viscosity product based on a mixture of polyethylene-polypropylene glycol ether (PEG/PPG). This liquid combines lubricating properties and corrosion protection with the required solubility in water systems· This makes it ideal for use as a cleaning agent in the confectionery market and for any sugar-related application. ESCA SUGAR 22 meets the requirements of the FDA, 21 CFR 178.3570, and is H1 registered for processes where occasional contact with food may occur. All ESCA H1 registered products are manufactured in accordance with ISO 21469: 2006, which supports the HACCP- and GMP programmes of manufacturers. ESCA H1 lubricants do not contain any ingredients of animal origin or genetically modified products and they are KOSHER and HALAL certified.	22	Synthetic

QUALITY GUARANTEE

Unil Lubricants works on an exclusive basis with an extensive and high-performance laboratory. This laboratory is also commercially active in the field of condition monitoring. In this way, we can also offer solutions through proactive maintenance that can drastically extend the lifespan of your machine.

Various quality controls
All Unil lubricants are subjected to extensive quality controls both before, during and after production. The production manager takes a sample of the delivered product upon receipt of the base oils and other raw materials. The raw materials are only accepted and taken into production if they comply with all the predefined specifications.

After the production of a certain product, a sample is taken from the production tank. This sample undergoes a similar amount of tests as the first sample, where it is checked for viscosity at 40° C and 100° C, colour, viscosity index, but also for water content and content of phosphorus, zinc, magnesium, calcium and sulphur. In addition, additional critical tests may be imposed on products developed for specific applications.

After filling the products in smaller packages such as an IBC or a barrel, a third sample is taken. This sample undergoes the previous tests again to make sure that the quality from raw material to finished product is maintained.

Extra service
Customers of Unil Lubricants can also make use of the expertise of the laboratory services. By carrying out regular analyses, you will be able to carry out proactive maintenance. A proactive maintenance method focuses on the causes of machine wear and tear and defects. This strategy allows considerable savings in terms of machine maintenance, since it is possible to intervene before an issue or defect in the machine is visible. In this way, we can extend the service life of mechanical machines by up to 20%.

This not only ensures that you get the best product for your machine, but also that your machine can continue to run undisturbed with the best care.

If you would like to know more about our lab activities and its analyses, please contact your representative.

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