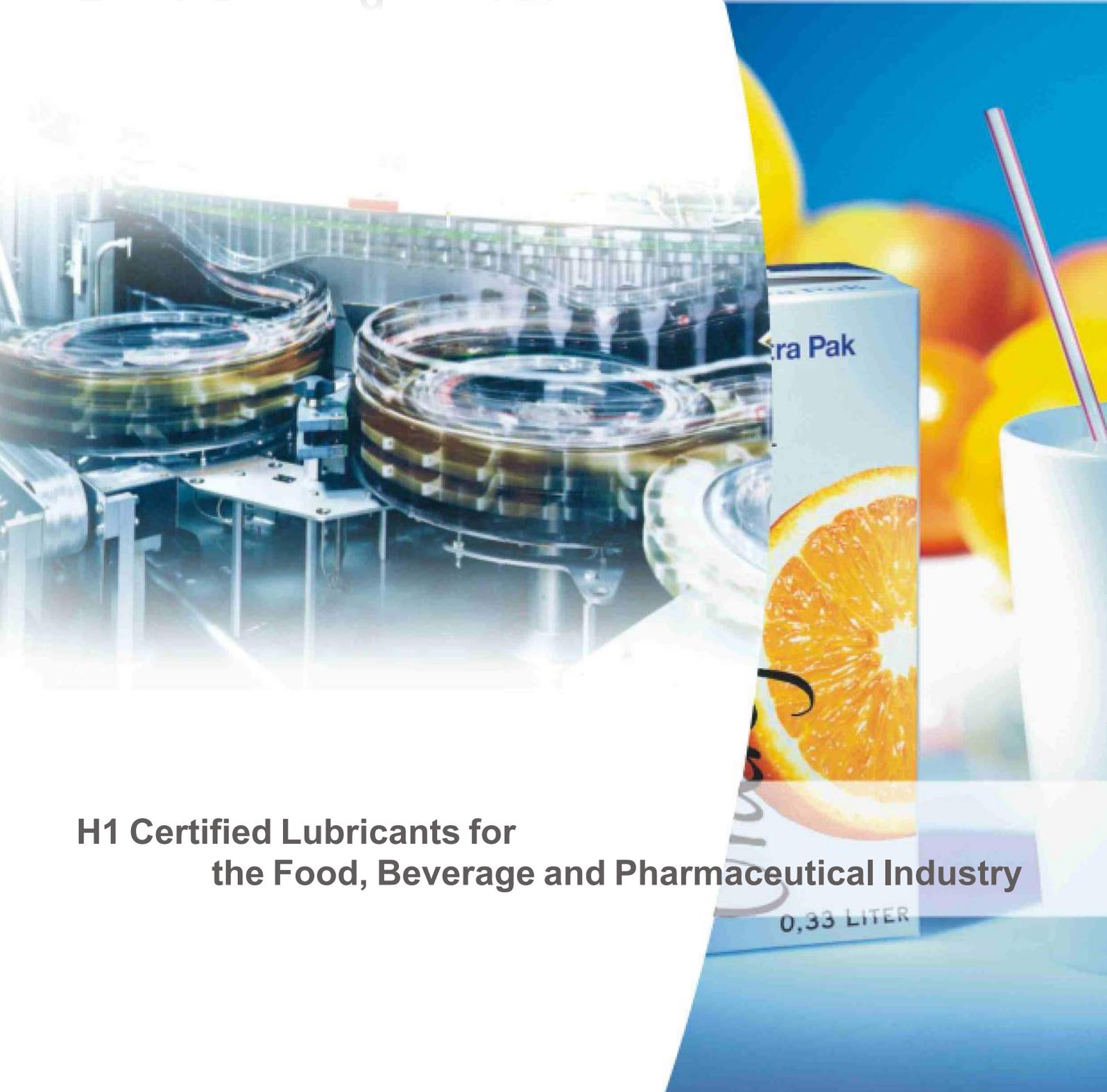




LUBCON® Services for the Food, Beverage and Pharmaceutical Industry



**H1 Certified Lubricants for
the Food, Beverage and Pharmaceutical Industry**



Safety and Efficiency with High Performance

Severe operating conditions such as humidity, heat, sanitisers, cleaners and water contamination present unique challenges for lubricants in the food and beverage industry. Selecting the right lubricant is imperative in order to maximise operating reliability and efficiency while meeting stringent safety requirements and achieving optimum machine performance levels.

In conjunction with many original equipment manufacturers (OEM's) throughout the industry, LUBCON has developed an extensive range of outstanding lubricants to maximise machine productivity. This range of lubricants has unique properties designed to optimise customer productivity when operating under the harshest conditions.

Unique Long Life Lubricants for the Food, Beverage and Pharmaceutical Industry from One Source

For more than 30 years **LUBCON** has developed specialty lubricants designed to meet the exacting demands of the food, beverage and pharmaceutical industry. These lubricants are specifically designed to perform in the diverse range of operating conditions found in the baking, meat processing, canning and beverage industries.

LUBCON's lubricants offer long-term high performance due to their designed excellent wear protection properties in their specified environments. The global availability of the product ensures you can source the right lubricant for your needs wherever you are located.



Food and Pharmaceutical Industry

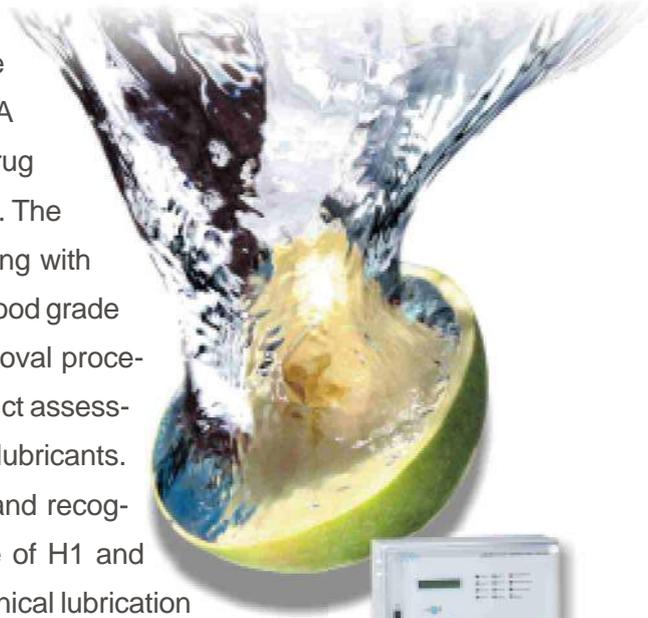
Under Harsh Conditions Performance Lubricants



NSF / InS classified

Food Grade Lubricants for the Food and Pharmaceutical Industry

LUBCON's H1 and Halal approved and registered products are manufactured in accordance with the guidelines defined by the USDA (United States Department of Agriculture), the FDA (Food and Drug Administration) and HDC (Halal Industry Development Corporation). The FDA and HDC have determined a list of approved ingredients, along with standards on their quality and quantity for use in the manufacture of food grade lubricants. Institutions such as NSF, InS and HDC formalised approval procedures for registration in line with the FDA/HDC guidelines and conduct assessments and maintain a register of approved food grade and Halal lubricants. Food grade lubricants must have no taste or odour, be non-toxic and recognised as physiologically safe. LUBCON carries a complete range of H1 and Halal approved and registered food grade lubricants to meet all technical lubrication needs. These special products are suitable for a wide range of applications including gears, chains, roller bearings, plain bearings, joints, cutting elements, runways, linear guides and many other applications. We offer you a free consultation and complete assistance before, during and after your purchase of LUBCON products.



Optimum Chain Service Life through customised Lubrication Technology

Increasing conveyor speeds, harsh temperatures and the continued drive for reduced maintenance require an advanced solution for conveyor chains in order to minimise chain oil consumption and maximise conveyor chain service life. The **TLB 2000** automatic chain lubricator has been designed to meet the requirements of modern manufacturing environments. Accurate dispensing of chain oil eliminates waste and prevents potential contamination of the final product. This lubrication technology can be applied throughout food processing from packaging, conveying, drying and processing.



H1 Classified Oils/Sprays

Cutting Oils

Turmocut® LMI Series

Fully synthetic cutting oils. Ideally suited for the lubrication of cross cutters and disc-cut systems in the paper and corrugating industry. Specially selected raw materials ensure good adhesion and excellent lubricating properties.

- ✓ good surface activity
- ✓ wide temperature range
- ✓ protection against friction and wear
- ✓ excellent cleaning properties

Release Agents/ Heat Transmission Fluids

Turmsilon® K Series

Thermally stable silicone oils with a wide temperature range up to 250 °C (482 °F) with excellent low temperature properties. These transparent polydimethylsiloxanes have excellent separation resistance, do not react with most seals and elastomers making them ideally suited as release and lubricating agents in the plastic and metal processing industry.

- ✓ low pour point
- ✓ good viscosity and temperature behaviour
- ✓ high surface activity
- ✓ high compressibility
- ✓ excellent sealing compatibility

Gear and Hydraulic Oils

Turmosynth® VG Series

Lubricating oils based on high-purity hydrocarbons with paraffinic synthetic oils for high pressure applications suitable for wide temperature ranges. Due to their very good surface wetting properties these special oils offer excellent lubrication over a long-term basis. This makes them ideally suited for the lubrication of hydraulics, gears, chains, bearings, lifters and joints in the food and food packaging industry.

- ✓ high pressure stability
- ✓ very good ageing and oxidation stability
- ✓ excellent wear protection
- ✓ high purity of the oil

Turmosynth® oil GV Series

Fully synthetic gear oils with high oxidation resistance. The special oils of the GV Series are also suitable for the long-term lubrication of chains and spindles due their wide operation temperature range. They form a protective lubricating film on metal surfaces and maintain low friction coefficients even at high loads.

- ✓ long oil change intervals
- ✓ high load carrying capacity
- ✓ very good ageing and oxidation stability
- ✓ high adhesions and creeping effect
- ✓ low evaporation losses
- ✓ wide temperature range

Chain Oils

Turmosynth® oil HTC Series

Solid-free product range of high temperature chain oils for the lubrication of conveyor chains in the packaging industry. These products minimise lubricant consumption on conveyor chains in high temperature ovens and dryers and prevent carbonised deposits as well as heavy smoke formations even at temperatures up to 250 °C (482 °F). The synthetic oils are suitable for automatic lubrication such as central lubricating systems or drop feed lubrication.

- ✓ outstanding temperature/viscosity properties
- ✓ excellent wear protection
- ✓ significantly reduce oil consumption
- ✓ optimum corrosion protection
- ✓ extreme resistance against ageing
- ✓ low evaporation

Turmosynthoil® SKE 320

Synthetic high temperature oil with special selected EP-additives for the lubrication of load, drive and transportation conveyer chains. This lubricant avoids residues and is suitable for operating temperatures up to 240 °C (464 °F). This specialty oil has excellent anti-ageing properties offering long term protection against friction and wear.

- ✓ good lubricating and cleaning properties
- ✓ high load carrying capacity
- ✓ excellent temperature/viscosity properties
- ✓ good wear protection

H1 Classified Oils/Sprays

Vacuum Oils



Turmotemp® 400 Series

Synthetic high performance lubricants with a PFPE (Polytetrafluoroethylene) base. These lubricants exhibit excellent performance, particularly in high temperatures up to 300 °C (572 °F) and enable long lubricating intervals. These thermal and chemical stable lubricating oils have excellent lubricating properties and are mainly used in oxygen, vacuum and fitting applications as a sealing agent as well as dielectric hydraulic and heat transmission liquids.

- ✓ non-flammable
- ✓ very low evaporation
- ✓ prevents residues
- ✓ high pressure stability
- ✓ low pour point
- ✓ excellent compatibility towards sealing materials
- ✓ high molecular weight

Turmosynth® oil GV Series

Fully synthetic vacuum pump oils with NSF/H1 registration suitable in a wide temperature range. They have outstanding behaviour at high thermal loads, prevent oxidation deposits and protect against wear.

- ✓ neutral towards elastomers and plastics
- ✓ high load carrying capacity
- ✓ low coefficient of friction
- ✓ prevents corrosion of non-ferrous metals

Compressor Oils

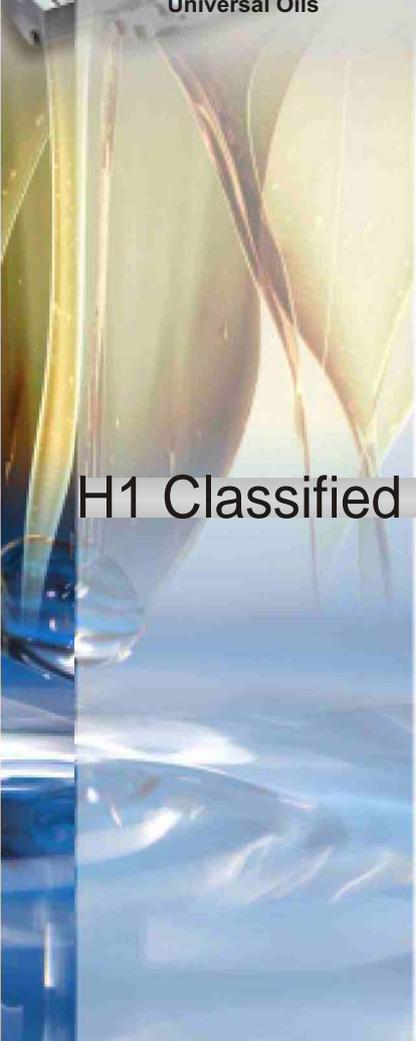


Compguard® FG Series

Non-toxic compressor oils for high and low operating temperatures. The special oils are suitable for the long-term lubrication of rotary, vane as well as screw compressors and enable oil change intervals up to 4000 hours at moderate operation speeds.

- ✓ InS/H1 approved
- ✓ minimise oil consumption
- ✓ increase compressor performance
- ✓ decrease operating temperature
- ✓ optimum protection against friction and wear

Universal Oils



Turmofluid® LMI 300

Physiologically safe universal oil which is tasteless and odourless for the food, beverage, cosmetic and pharmaceutical industries. Suitable in applications which require excellent lubrication and friction reducing properties at operating temperatures up to 220 °C (428 °F). It minimises friction on metal surfaces and protects against wear and corrosion.

- ✓ excellent wetting properties
- ✓ high oxidation stability
- ✓ no resins formation, no sticking, no coking
- ✓ very good load carrying capacity

Turmosynth® oil 75 TF

Universal oil with special PTFE-additives for optimum lubricating properties and protection against friction and wear.

- ✓ good wetting properties
- ✓ water repellent and high pressure resistant
- ✓ optimum creep resistance and lubricating properties

H1 Classified Cleaning Agents/Solvents

Elephants Milk

Sugar soluble lubricant for the lubrication of wrapping and packaging machines, pelletiser presses and foiling machines, rockers/levers, joints, spindles, chains and pincers. Due to its high density it penetrates mineral oil based emulsions and allows for a safe change out of lubricants. It is biodegradable and offers excellent corrosion protection.

- ✓ sugar and water solubility
- ✓ no deterioration and creaming of the product
- ✓ good metal affinity
- ✓ biodegradable

Turmosynth® VG 2

Liquid, NSF/H1 approved cleaner with very good compatibility with metals and elastomers. It is especially suitable as carrier medium for diluting lubricants for the food processing industry.

- ✓ low pour point
- ✓ water repellent
- ✓ non-toxic

H1 Classified Greases/Pastes

Fitting Greases

Turmsilon® LMI 5000

Fully synthetic silicone grease for low and high temperatures. This product has been developed for the lubrication of filler and feeder fittings with EPDM seals as well as rubber seals. It is neutral towards elastomers and resistant to disinfectants and cleaning solutions.

- ✓ physiologically safe without taste or odour
- ✓ good temperature characteristics
- ✓ neutral towards beer foam
- ✓ excellent sealing compatibility
- ✓ resistant to cold and hot water

Turmsilon® GL 320

Fully synthetic silicone grease for application in wide temperatures. This product is inert toward elastomers such as NBR, EPDM and rubber seals.

- ✓ physiologically safe
- ✓ especially suitable in high and low temperatures
- ✓ beer foam neutral
- ✓ excellent sealing compatibility

Turmosynth® 2000 Series

Fully synthetic and adhesive lubricants. These products are suitable for the lubrication of beer and bar fittings as well as dispenser installations. These lubricants show good performance due to their very good cold and hot water stability as well as an outstanding neutrality towards beer foam. The greases of the NLGI classes 2 and 3 are also utilised for the lubrication of roller and journal bearings as well as tooth and worm gears in the food processing industry.

- ✓ without taste or odour
- ✓ extremely resistant to disinfectant and cleaning solutions
- ✓ resistant to milk and fruit acids

Turmosynthgrease® LMI 2

Special tap grease with good lubricating properties and excellent oxidation stability. This lubricant is steam resistant, very adhesive, is not subject to resinification and is thus mainly utilised in valves, taps and bearings in the beverage and food industry.

- ✓ beer foam neutral
- ✓ resistant to milk and fruit acids
- ✓ physiologically safe

Guide Ways/ Slide Ways

Turmosynthgrease® AL Series

Universal greases suitable for all guide ways and sliding elements such as cylinder guide ways, rollers, cam discs, toothed rings, tubular tracks return stations in circular conveyors and miscellaneous bearings inside and outside the cooling section. These adhesive synthetic greases show a wide temperature range and are thus perfectly suitable for the lubrication in the food industry.

- ✓ without taste and odour
- ✓ good adhesion
- ✓ resistant to cold and hot water
- ✓ excellent protection against wear

Roller/ Journal Bearings

Turmosynthgrease® ALN Series

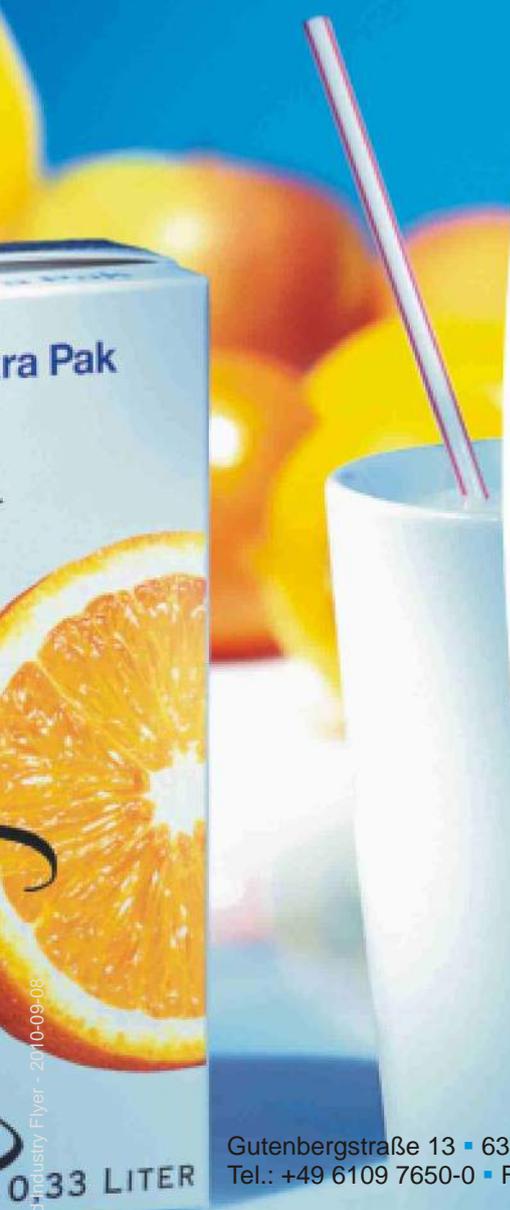
Temperature and oxidation stable special greases for the lubrication of roller and journal bearings at low and medium speeds. These products show very good lubricating properties with a low friction coefficient and protect against corrosion and wear. The food grade lubricants are ideally suited in roller and journal bearings for belt presses.

- ✓ cold and hot water resistant
- ✓ excellent corrosion protection
- ✓ high load carrying capacity
- ✓ outstanding thermal stability
- ✓ good resistance towards cold and hot surrounding liquids

Turmosynthgrease® W 2502

Good adhesive, synthetic, universal grease with excellent wear protection for the lubrication of roller and journal bearings, joints, guide ways and cam discs in the food and beverage industry. It is absolutely water and media resistant offering very high protection against corrosion.

- ✓ clean and hygienic
- ✓ ideally suited for centralised lubrication systems
- ✓ excellent affinity towards metal surfaces
- ✓ excellent corrosion and wear protection



If you would like to know more about our **Product Range** and the **Services** we are offering you, please contact us...

LUBRICANT CONSULT GMBH

Lubricants ■ Lubrication Systems

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