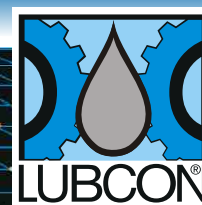


We have the solution...

...the future has a name



Reg.-Nr. 17581-04



Reg.-Nr. 17581-04

Basic Programme

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Please note:

This brochure only contains product information. For specific information please refer to our technical data and safety data sheets. The indications made represent the present state of development and knowledge of **LUBRICANT CONSULT GMBH**. Subject to change. The products are subject to severe controls of manufacture and comply in full with the specifications set forth by our company, but due to the multitude of different influencing factors, we cannot assume any warranty for the successful application in each individual case. Therefore, we recommend to perform field tests. We strictly refuse any liability.



Headquarters with laboratory
and test field (archive)

Your Partner for the Lubrication of Bearings



The Company:

The **LUBRICANT CONSULT GMBH** is one of the leading developers and manufacturers in the **lubrication engineering** sector. In 1980 the company was founded by Jürgen Engelke with its headquarters in Maintal near Frankfurt, meanwhile subsidiaries have followed in Switzerland, Austria, France, Italy, Poland, Slovenia, Czech Republic and in the USA. An extensive network of sales representatives in Germany and distributors in all parts of the world ensure the distribution around the globe.

Quality:

An innovative team of chemists and engineers is permanently preoccupied in our own laboratories with the research and development of special lubricants that are unique on the market. The extraordinary performance of the **LUBCON lubricants** results from the combination of selected raw materials, additives and modern production methods.

The **quality management** is a central concern, therefore all steps within the manufacturing process are constantly reviewed and subject to strict manufacturing controls. All our products

meet the high requirements of international quality standards.

A **Quality and Environment Management** established in June 1996, certified according to DIN EN ISO 9001 and 14001, has scrupulously ensured that only raw materials are used without any ingredients harmful to the environment and to preserve the environmental resources as much as possible.

LUBCON products are not liable to identification marking.

Service:

An important factor to achieve a long service life, high operational reliability and efficiency is the selection of the right lubricant.

Whatever you need - from the consultation on tribological questions and the realization of your individual requirements to the setting into operation of the lubricant - **LUBCON** is the partner at your side worldwide.

And that is not yet all...

The **TOTAL LUBE MANAGEMENT** enables you to work even more efficient and more economic than ever before. This performance includes

- **ELABORATION** of lubricant charts for your company
- **DELIVERY** of the lubricants determined in the lubricant charts
- **LUBRICATION** of the individual plant installations with the lubricants listed in the lubricant chart
- **DOCUMENTATION** of the lubrication processes
- **CONCEPTION** of lubricating systems for oils and greases
- **SETTING INTO OPERATION** of the lubricating systems
- **PROCUREMENT** of production means, e. g. grease guns, grease nipples, lubricant supply systems, etc.
- **FILLING** of rolling bearings in small series with the greases indicated by you

Did you know that **LUBCON lubricants** are applied for your safety worldwide every day?

- e. g. in single-lever mixers of water fittings
- in energy regulators in electric stoves
- in the Airbus aircraft
- in the Ariane carrier rocket
- in the Formula 1 by Sauber-Petronas, Jordan and Benetton
- in vehicle components lubricated for life
- in the food production with specially approved (NSF-H1) food lubricants
- in large open gear drives of cement mills, in small gears of dental turbines
- in large bearings in the open pit mining, in miniature bearings of computers
- in conveyor chains of paint dryers, in transport chains of refrigerating plants etc.

LUBCON philosophy:

... the right **LUBCON product** at the agreed date:

... 100 ml tubes, 400 ml sprays, 400 ml cartridges, 1 kg cans, 5 l canisters, 20 l canisters, 5 kg buckets, 25 kg buckets, 180 kg drums, 200 l drums or the 1000 l container are just a small selection of the packing units possible...

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Oils:

Physiologically recognised as safe, inodorous and tasteless lubricating oils which meet the requirements of § 5 of the German food act (LMBG) and the FDA 21 CFR 178.3570. As NSF registered H1-products their contact with foodstuff is admissible.

TURMOFLUID® LMI 300

- ⚙️ fully synthetic
- ⚙️ colour: almost colourless/transparent
- ⚙️ temperature application range: -10 °C to +220 °C
- ⚙️ high load carrying capacity
- ⚙️ resistance to oxidation

For all lubrication and friction points in the foodstuff and beverage industry to be maintained by means of a physiologically harmless oil. As separating and sliding agent in the manufacture of baker's ware.

TURMO®SYNTHOIL GV - line

- ⚙️ fully synthetic
- ⚙️ colour: clear/almost colourless
- ⚙️ temperature application range: -50 °C to +180 °C
- ⚙️ improved lubricating properties
- ⚙️ best load carrying capacity, low coefficients of friction
- ⚙️ resistance to oxidation

High and low temperature oils for difficult service conditions or long-term application, e. g. lubrication of compressors, gears, hydraulics and chains.

TURMO®SYNTHOIL SKE 320

- ⚙️ fully synthetic
- ⚙️ colour: transparent
- ⚙️ temperature application range: up to +240 °C
- ⚙️ extremely low evaporation
- ⚙️ excellent viscosity-temperature behaviour
- ⚙️ optimum wearing protection
- ⚙️ resistance to oxidation

High temperature oil for conveyor chains in drying plants and ovens in the beverage and food industry. It provides reduced lubricant consumption and reduces the formation of residues and smoke at high temperatures.

TURMO®SYNTH VG 320 CB is the thin liquid alternative for the application in centralized lubricating systems.

TURMO®SYNTH VG - line

- ⚙️ partly synthetic
- ⚙️ colour: clear/almost colourless
- ⚙️ temperature application range: -10 °C to +120 °C

Universally applicable foodstuff oils suitable for all friction points with oil lubrication, e. g. hydraulics, gears, bearings, chains, spindles, lifters and articulations.

Emulsion:

ELEFANTENMILCH

- ⚙️ biologically degradable
- ⚙️ colour: white
- ⚙️ sugar dissolving
- ⚙️ ready-to-use

This emulsion is a special lubricant mainly used in the confectionery industry, e. g. wrapping and packing machines, pre-forming and tin foiling machines, rocker levers, joints, lifters, spindles, chains and pincers.



The different kinds of "short noodles" with the brand "Fitmacher" of the company "Teigwaren Riesa", D-Riesa are produced with modern machines since July 2000.



Greases:

Physiologically recognised as safe, inodorous and tasteless lubricating greases which meet the requirements of § 5 of the German food act (LMBG) and the FDA 21 CFR 178.3570. As NSF registered H1-products their contact with foodstuff is admissible.

TURMO®SYNTHGREASE AL - line

- ⚙ partly synthetic
- ⚙ colour: light-coloured/transparent
- ⚙ service temperature range: -40 °C to +120 °C
- ⚙ resistant to cold and hot water
- ⚙ good adhesive properties
- ⚙ good pumpability in centralised lubricating systems

TURMO®SYNTHGREASE ALN - line

- ⚙ fully synthetic
- ⚙ colour: yellowish
- ⚙ service temperature range: -30 °C to +180 °C
- ⚙ resistant to cold and hot water as well as to steam
- ⚙ high thermal stability
- ⚙ good load carrying capacity, low coefficients of friction
- ⚙ good wearing protection, resistant to oxidation
- ⚙ good pumpability in centralised lubricating systems

TURMO®SYNTHGREASE W - line

- ⚙ partly synthetic
- ⚙ colour: light-coloured/beige
- ⚙ service temperature range: -20 °C to +120 °C
- ⚙ resistant to cold and hot water as well as to media
- ⚙ good load carrying capacity
- ⚙ good wearing protection
- ⚙ good pumpability in centralised lubricating systems

TURMO®SYNTH 2000 + 2000 EL

- ⚙ partly synthetic
- ⚙ colour: beige/transparent
- ⚙ service temperature range: -20 °C to +120 °C
- ⚙ resistant to cold and hot water, can be steamed
- ⚙ dynamically light, well adhesive
- ⚙ neutral towards beer foam
- ⚙ resistant to disinfectants

TURMSILON® LMI 5000

- ⚙ fully synthetic
- ⚙ colour: white
- ⚙ service temperature range: -50 °C to +220 °C
- ⚙ resistant to cold and hot water, can be steamed
- ⚙ neutral towards beer foam
- ⚙ resistant to disinfectants
- ⚙ neutral towards elastomers (NBR, EPDM etc.), except for silicon caoutchouc

These greases have been successful for rolling and sliding bearings, guiding tracks, sliding rails, cylinder guides, rollers, cam disks, gear rims and rods for filling and capping machines, washing machines, transporting and sorting installations, wine-presses as well as for tubular tracks and rolling hooks in slaughterhouses.

Universal greases for all grease lubricating points in the beverage industry, in dairies, cheese-dairies, slaughter houses, meat and sausage production, for the fish industry, confectionery, baker's ware and farinaceous food industry, for poultry processors and manufacturers of canned food, nutrients, frozen food, for canteen kitchens and coffee roasters.

Lubricants for the foodstuff and beverage industry. Applicable for keg racking machines, fittings in storage cave, in dispensers, seals (EPDM) as well as in rolling and sliding bearings in the foodstuff engineering.

Applicable in the lubrication of beer and bar fittings, filling and feeding fittings with EPDM seals as well as rubber seals, e. g. collars, membranes and lip seals.

Sprays:

Physiologically recognised as safe, inodorous and tasteless sprays which meet the requirements of § 5 of the German food act (LMBG) and the FDA 21 CFR 178.3570. As NSF registered H1-products their contact with foodstuff is admissible.

TURMOFLUID® LMI 300

- ⚙ silicon-free

TURMO®SYNTHOIL 75 TF

- ⚙ silicon-free

Fully synthetic lubricating and separating agent, applicable in all sectors of the foodstuff industry.

TURMSILON® M 100

- ⚙ containing silicon

Oils:

TURMOFLUID® 40 B

- ⚙️ fully synthetic
- ⚙️ colour: yellowish
- ⚙️ service temperature range: -30 °C to >+250 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ low evaporation loss
- ⚙️ high load carrying capacity
- ⚙️ silicon-free, does not polymerise
- ⚙️ high wearing protection
- ⚙️ resistant to oxidation

Suitable for the lubrication of all driving chains and conveyor chains (textile stenter frames).

TURMOTEX® M 50

- ⚙️ fully synthetic
- ⚙️ colour: yellow/transparent
- ⚙️ flat viscosity-temperature behaviour
- ⚙️ low friction
- ⚙️ reducing temperature and wear
- ⚙️ resistant to oxidation

High performance oil for the impregnation of all sinter bearings and all types of sintered spinning and twisting rings (PSM), sliding bearings of precision instruments with excellent properties regarding operating reliability and economic efficiency.

TURMOTEX® OIL LP - line

- ⚙️ partly synthetic
- ⚙️ colour: yellowish/clear
- ⚙️ good heat dissipating properties
- ⚙️ good wetting properties, superfine metering
- ⚙️ completely scouring
- ⚙️ reducing wear

These oils are suitable for the lubrication of needles, sinkers, needle and sinker cylinders, needle and sinker ducts, spinning rings.

TURMOTEX® OIL RP - line

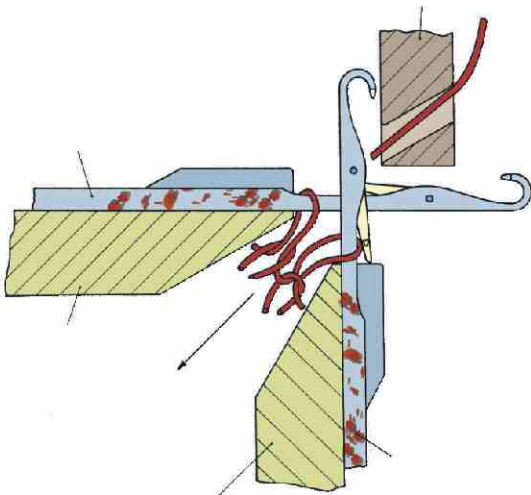
- ⚙️ fully synthetic
- ⚙️ colour: clear/transparent
- ⚙️ high load carrying capacity
- ⚙️ good wetting properties, superfine metering
- ⚙️ completely scouring
- ⚙️ reducing wear

These oils are suitable for the lubrication of needles, sinkers, needle and sinker cylinders, needle and sinker ducts, spinning rings, even when exposed to high mechanical loads.

TURMOTEX® Trak 50

- ⚙️ fully synthetic
- ⚙️ colour: slightly yellowish
- ⚙️ not applicable for standard gears

Particularly suitable for the lubrication of infinitely variable automatic gears (frictional wheel, PIV etc.).



Partial view of right/right looping procedure (Groz-Beckert KG, D-Albstadt)



Vertically rotating slide chain constructed as needle chain with closed needle protection, guideway and slide bolt are lubricated (Brückner Trockentechnik GmbH & Co KG, D-Leonberg)



Greases:

TURMOPAST® HTP 3200 KW

- ⚙️ fully synthetic
- ⚙️ colour: whitish
- ⚙️ service temperature range: -40 °C to +300 °C
- ⚙️ resistant to alkalis, acids and hydrocarbons

Special grease for the lubrication of textile steamers.

TURMOTEX® CAN 2502

- ⚙️ partly synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -20 °C to +200 °C
- ⚙️ resistant to cold and hot water, to steam and alkaline solutions
- ⚙️ high load carrying capacity
- ⚙️ good wearing protection

Heavy-duty and high-temperature grease resistant to media.

TURMOTEX® Highspeed L 252

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -50 °C to +140 °C
- ⚙️ supple, work stable
- ⚙️ low moment of friction
- ⚙️ low starting resistance

Lubricating grease for high-speed textile spindles with favourable friction and noise behaviour, suitable for long-term and for-life lubrication. This grease replaces the oil and oil mist lubrication in many cases. It shows best low temperature properties and only slightly warms up when used at high speeds.

TURMOTEX® I/300

- ⚙️ fully synthetic
- ⚙️ colour: intensive dark blue
- ⚙️ service temperature range: -30 °C to +200 °C
- ⚙️ soft consistency
- ⚙️ high load carrying capacity
- ⚙️ good wearing protection

Heavy-duty and high-temperature grease not resistant to media.

TURMOTEX® N 2

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -40 °C to +160 °C
- ⚙️ resistant to cold and hot water
- ⚙️ good pumpability in centralised lubricating systems

Lubricating grease offering versatile possibilities of use in industrial plants, particularly in the presence of aqueous alkaline, acid cleaning media or scouring media as well as their vapours, following DIN 51807.

Sprays:

TURMOFLUID® 40 B

- ⚙️ fully synthetic
- ⚙️ colour: yellowish
- ⚙️ service temperature range: -30 °C to >+250 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ low evaporation loss
- ⚙️ high load carrying capacity
- ⚙️ silicon-free, does not polymerise
- ⚙️ high wearing protection, resistant to oxidation

Suitable for the lubrication of all driving chains and conveyor chains (textile stenter frames).

TURMOFLUID® 300 OM

- ⚙️ fully synthetic
- ⚙️ colour: green/transparent
- ⚙️ service temperature range: -5 °C to +240 °C
- ⚙️ good creeping properties
- ⚙️ adhesive, silencing
- ⚙️ high load carrying capacity
- ⚙️ stays supple at low temperatures

Spray for the lubrication of open drives and wire ropes, chains, guide ways, gearwheels, sliding points and control cams, if a good adhesion is required.

TURMOLYB® MDC

- ⚙️ colour: grey/black
- ⚙️ service temperature range: -180 °C to +450 °C
- ⚙️ resistant to pressure
- ⚙️ extremely adhesive

MoS₂ dry bonded coating for the lubrication of width adjustment spindles and sliding surfaces at high temperatures.

Oils:

TURMO[®]CUT - line

- ⚙ fully synthetic
- ⚙ colour: light-coloured/transparent
- ⚙ service temperature range: -40 °C to +240 °C
- ⚙ good viscosity-temperature behaviour

Oils with excellent properties for the lubrication of disc-cut/cutting systems and rotary cutters.

TURMOGEAR[®]OIL PE - line

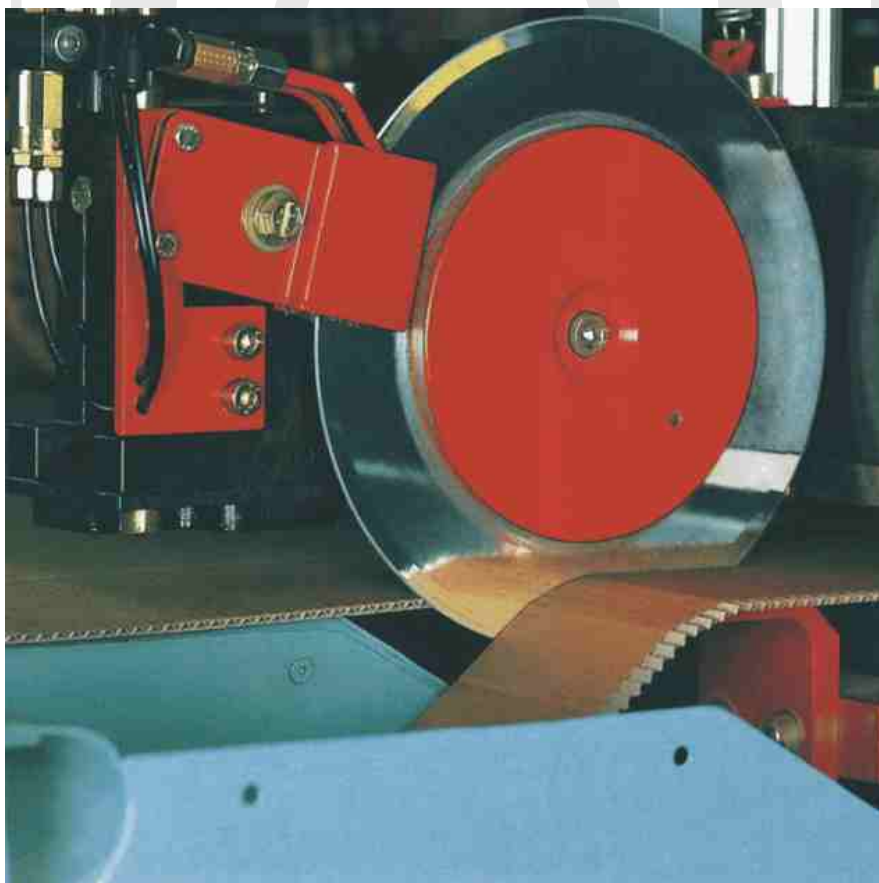
- ⚙ fully synthetic
- ⚙ colour: light-coloured/transparent
- ⚙ service temperature range: -30 °C to +180 °C
- ⚙ good viscosity-temperature behaviour
- ⚙ evaporates residue-free
- ⚙ high water separation ability
- ⚙ miscible with mineral oil

These oils are specially suitable for the circulation lubrication of gears and calender bearings. Outstanding characteristic is their good water separation ability.

TURMOPOL[®]OIL EP - line

- ⚙ fully synthetic
- ⚙ colour: yellowish/transparent
- ⚙ service temperature range: -30 °C to +220 °C
- ⚙ thermal stability
- ⚙ high load carrying capacity
- ⚙ not miscible with mineral oil

These oils are particularly suitable for drives with a high power loss, e. g. worm gears. Also applicable in installations exposed to heat, such as calender, paper machines or smelting plants if these are designed for glycol oils.



Disc cut system (BHS, D-Weiherhammer)



Greases:

TURMOTEMP® II/400 RS 2

- ⚙ fully synthetic
- ⚙ colour: white
- ⚙ service temperature range: -30 °C to +260 °C
- ⚙ low vapour pressure
- ⚙ non-toxic, non-combustible

Heavy-duty and high-temperature grease for rolling and sliding bearings. All points of application have to be cleaned fat-free before use with special detergents, such as TURMOTEMP® OIL 480, acetone, isopropanol or similar products. The full lubricating effect is only achieved on clean, fat-free and dry materials.

TURMOTEMP® LP 2502/5002

- ⚙ fully synthetic
- ⚙ colour: light beige
- ⚙ service temperature range: -30 °C to +260 °C
- ⚙ miscible with PTFE lubricating pastes
- ⚙ compatible with all materials
- ⚙ cleaning without CFC
- ⚙ high wearing protection

These greases are used in corrugated roller bearings (card-board production), chain return wheels and idle roller bearings exposed to high temperatures. They do not attack elastomers, nor non-ferrous or ferrous metals. All points of application must thoroughly be cleaned before using the lubricating greases.

TURMOTEMP® Super 2 EP

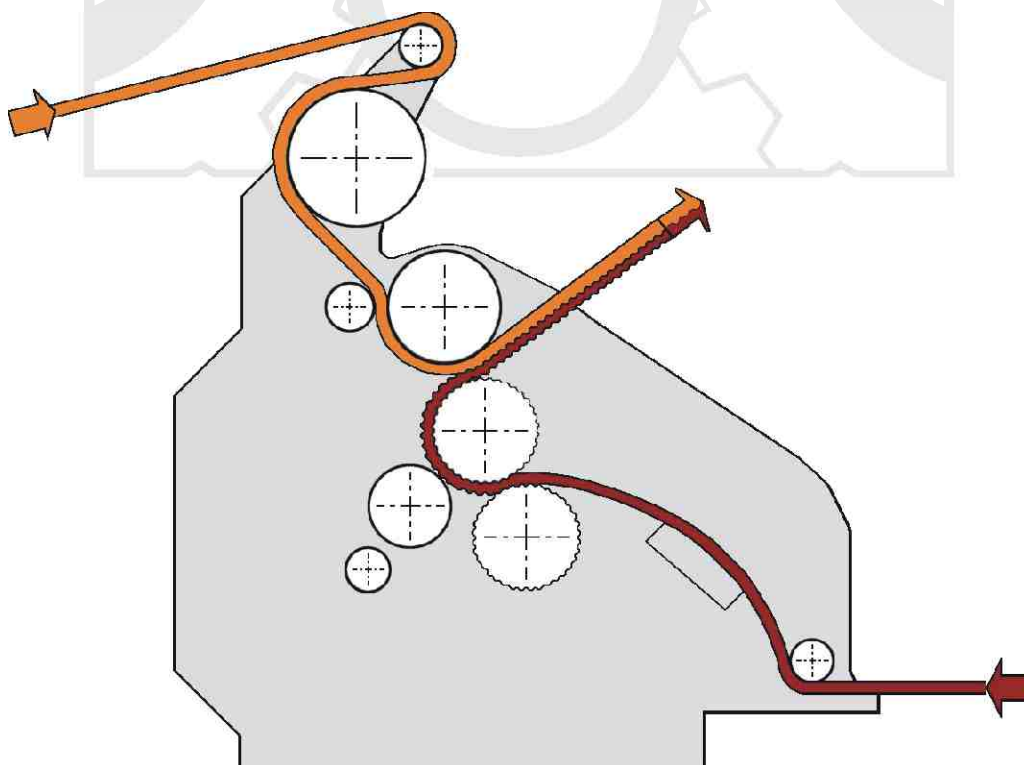
- ⚙ fully synthetic
- ⚙ colour: whitish
- ⚙ service temperature range: -30 °C to +280 °C
- ⚙ long grease service life
- ⚙ long relubrication intervals

For all bearing types and all application ranges at temperatures up to 280 °C. Environmentally friendly problem solutions for all kinds of grease lubrication in the upper temperature range. A water-soluble cold detergent is sufficient to clean the lubricating points.

TURMOWOOD® GREASE PM 2

- ⚙ fully synthetic
- ⚙ colour: beige
- ⚙ service temperature range: -40 °C to +220 °C
- ⚙ resistant to cold and hot water
- ⚙ compatible with NBR, FKM, PTFE, PA 6.6
- ⚙ good pumpability in centralised lubricating systems

With a continuous relubrication, this grease is the ideal lubricant for all rolling and sliding bearings in the dry and wet end section covering a wide temperature range.



Graphic description of corrugated board machine (FARO International GmbH, A-Grossebersdorf)

Oils:

TURMOFILM® OIL 220/300

- ⚙️ fully synthetic
- ⚙️ colour: yellowish-brown/transparent
- ⚙️ service temperature range: -10 °C to +250 °C
- ⚙️ thermally stable, low evaporation loss
- ⚙️ extremely adhesive, few powder-like residues
- ⚙️ low moment of friction
- ⚙️ does not polymerise
- ⚙️ resistant to oxidation

For oil lubricated chains in foil stretching machines exposed to high temperatures. Due to the synergetic effect of the additives, far superior to all chain oils known hitherto.

TURMOFLUID® 40 B

- ⚙️ fully synthetic
- ⚙️ colour: yellowish
- ⚙️ service temperature range: -30 °C to >+250 °C
- ⚙️ low evaporation loss
- ⚙️ good viscosity-temperature behaviour
- ⚙️ high load carrying capacity
- ⚙️ silicon-free, does not polymerise
- ⚙️ resistant to oxidation, good wearing protection

Suitable for the lubrication of all driving chains and conveyor chains in foil stretching machines.

Greases:

TURMOFILM® GREASE HT 2

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -30 °C to +260 °C
- ⚙️ resistant to temperatures, vacuum and radiation
- ⚙️ good resistance to media
- ⚙️ chemically stable

Suitable for extreme conditions in the lubrication of deep groove ball bearings, large rolling bearings, such as cylindrical, self-aligning and tapered roller bearings, as well as angular contact ball bearings. Lubricants with a drop point are known to become softer under thermal load and run back to the contact surfaces, thus contributing to an optimised lubrication pattern, i. e. the wear or fretting corrosion is reduced to a minimum.

TURMOTEMP® II/400 RS 2

- ⚙️ fully synthetic
- ⚙️ colour: white
- ⚙️ service temperature range: -30 °C to +260 °C
- ⚙️ extremely low vapour pressure
- ⚙️ non-toxic, non-combustible
- ⚙️ compatible with all materials
- ⚙️ resistant to oxidation

Heavy-duty and high-temperature lubricant for rolling and sliding bearings. All points of application have to be cleaned fat-free before use with special detergents, such as TURMOTEMP® OIL 480, acetone, isopropanol or similar products. The full lubricating effect is only achieved on clean, fat-free and dry materials.



Clip (archive)



Oils:

TURMOWOOD® OIL 1

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/transparent
- ⚙️ service temperature range: -30 °C to >+250 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ low evaporation loss
- ⚙️ high load carrying capacity
- ⚙️ silicon-free, does not polymerise
- ⚙️ resistant to oxidation, good wearing protection

Suitable for the lubrication of all driving chains and conveyor chains as well as for the lubrication of belts and rolling rods in Conti double belt presses.

TURMOWOOD® OIL 2

- ⚙️ fully synthetic
- ⚙️ colour: blue/transparent
- ⚙️ service temperature range: -30 °C to +250 °C
- ⚙️ excellent creeping properties
- ⚙️ low moment of friction, low up-take of current
- ⚙️ non-polymerising (non-toxic)
- ⚙️ high cleaning effect
- ⚙️ resistant to ageing and oxidation

Applicable for all driving chains and conveyor chains. Proved of excellent results in the lubrication of bending rods in Conti double belt presses. Exempt from sulphur compounds.

TURMOWOOD® OIL 300 OM

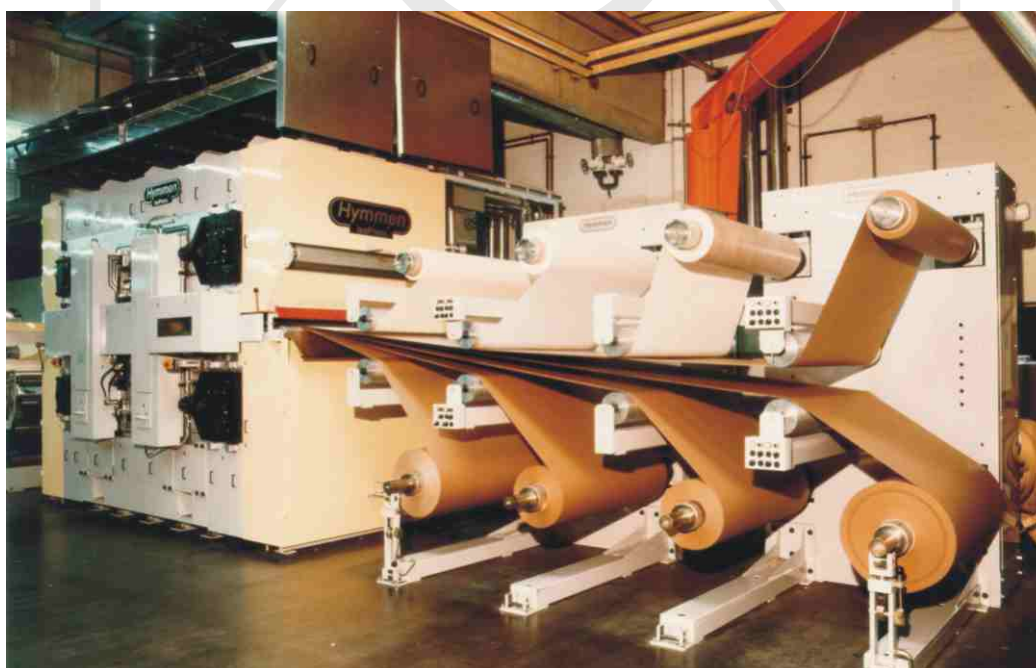
- ⚙️ fully synthetic
- ⚙️ colour: green/transparent
- ⚙️ service temperature range: -20 °C to +250 °C
- ⚙️ high load carrying capacity, silencing
- ⚙️ extremely adhesive

This oil is particularly suitable for the lubrication of open gears, ropes, driving chains and conveyor chains.

TURMSILON® K... - line WR

- ⚙️ fully synthetic
- ⚙️ colour: brownish/transparent
- ⚙️ service temperature range: -50 °C to +280 °C
- ⚙️ very good viscosity-temperature behaviour
- ⚙️ resistant to high temperatures
- ⚙️ good compatibility with elastomers
- ⚙️ low tendency to polymerise

Thermally stabilized special oils for the lubrication of transverse and longitudinal sealing strips, e. g. in Hymmen double belt presses.



Double Belt Press IsoPress® Type MFC (Hymmen GmbH, Maschinen- und Anlagenbau, D-Bielefeld)

Greases:

TURMOGREASE® Li 802 EP

- ⚙️ partly synthetic
- ⚙️ colour: dark brown
- ⚙️ service temperature range: -35 °C to +140 °C
- ⚙️ long relubrication intervals, low noise
- ⚙️ not resistant to media

Special grease for heavy duty, high speeds and high temperatures for all rolling and sliding bearings (e. g. in grinding machines).

TURMOWOOD® GREASE HT 2

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -30 °C to +260 °C
- ⚙️ resistant to temperatures, vacuum and radiation
- ⚙️ good resistance to media
- ⚙️ chemically stable

Suitable for extreme conditions in the lubrication of deep groove ball bearings, large rolling bearings, such as cylindrical, self-aligning and tapered roller bearings, as well as angular contact ball bearings. Lubricants with a drop point are known to become softer under thermal load and run back to the contact surfaces, thus contributing to an optimised lubrication pattern, i. e. the wear or fretting corrosion is reduced to a minimum.

TURMOWOOD® GREASE PM 2

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -40 °C to +220 °C
- ⚙️ resistant to cold and hot water
- ⚙️ compatible with NBR, FKM, PTFE, PA 6.6
- ⚙️ good pumpability in centralised lubricating systems

Due to a continuous relubrication this grease represents the ideal lubricant for all rolling and sliding bearings in the dry and wet section.

TURMOWOOD® PFPE

- ⚙️ fully synthetic
- ⚙️ colour: white
- ⚙️ service temperature range: -30 °C to +260 °C
- ⚙️ extremely low vapour pressure
- ⚙️ non-toxic, non-combustible
- ⚙️ compatible with all materials
- ⚙️ resistant to oxidation

For the life-time lubrication of rolling bearings running at low speeds, e. g. belt reversing pulleys. All points of application have to be cleaned fat-free before use with special detergents, such as TURMOTEMP® OIL 480, acetone, isopropanol or similar products. The full lubricating effect is only achieved on clean, fat-free and dry materials.



Converter Press with a laterally fitted greasing station (Maschinenfabrik J. Dieffenbacher GmbH & Co., D-Eppingen)

Greases:

THERMOPLEX 2 TML

- ⚙️ fully synthetic
- ⚙️ colour: honey-coloured/transparent
- ⚙️ service temperature range: -35 °C to +160 °C
- ⚙️ compatible with NBR, FKM, PTFE and PA 6.6

This efficient lubricating grease for high temperatures, high loads and high speeds up to $n \cdot d_m$ 1.3 million ($\text{min}^{-1} \cdot \text{mm}$) is successfully used in spindles, electric motors, fans as well as in small and miniature bearings.

TURMOGREASE® Highspeed L 182

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -70 °C to +120 °C
- ⚙️ compatible with NBR, FKM, PTFE and PA 6.6

This grease is particularly well suitable for smaller rolling bearings ($d < 25 \text{ mm}$) and very high speed factors up to $n \cdot d_m$ 2.5 millions ($\text{min}^{-1} \cdot \text{mm}$) as well as for the use at very low temperatures and applications requiring a very favourable behaviour of friction.

TURMOGREASE® Highspeed L 252

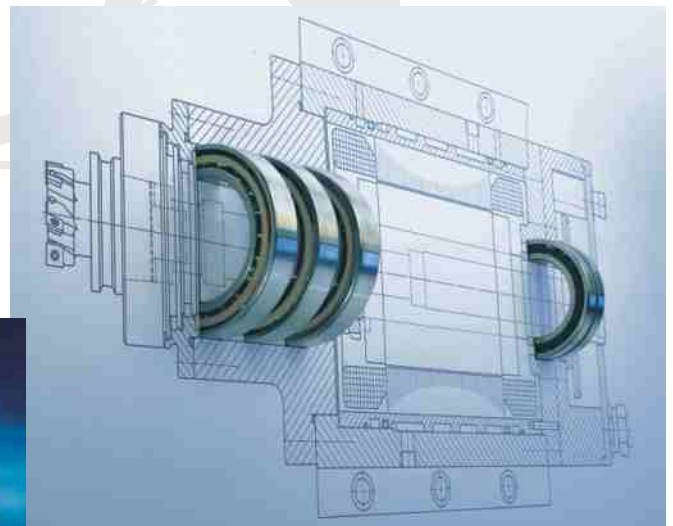
- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -50 °C to +120 °C
- ⚙️ compatible with NBR, FKM, PTFE and PA 6.6

Suitable for the lubrication of spindle and cylindrical roller bearings for bore sizes of the inner ring below $d < 100 \text{ mm}$. It is the special grease to be used for high-speed rolling bearings up to $n \cdot d_m$ 2.2 million ($\text{min}^{-1} \cdot \text{mm}$).

TURMOGREASE® Li 802 EP

- ⚙️ partly synthetic
- ⚙️ colour: dark brown
- ⚙️ service temperature range: -35 °C to +140 °C
- ⚙️ compatible with NBR, FKM, PTFE and PA 6.6

This efficient lubricating grease for high temperatures, high loads and high speeds up to $n \cdot d_m \leq 1$ million ($\text{min}^{-1} \cdot \text{mm}$) is successfully used in spindles, electric motors, fans, small and miniature bearings. The versatile possibilities of use allow in many plants to reduce the high number of different grease types often encountered nowadays.



High speed spindle bearings (SKF, D-Schweinfurt)

Oils:

TURMO®GLAS BK 270

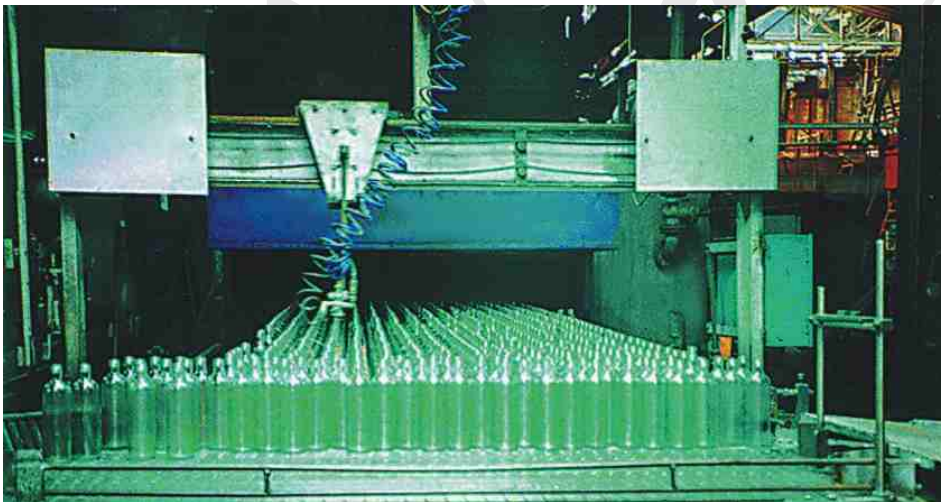
- ⚙️ fully synthetic
- ⚙️ colour: brown/transparent
- ⚙️ service temperature range: -30 °C to +250 °C
- ⚙️ high load carrying capacity
- ⚙️ miscible with mineral oils

Special synthetic oil for the lubrication of hollow glass manufacturing machines.

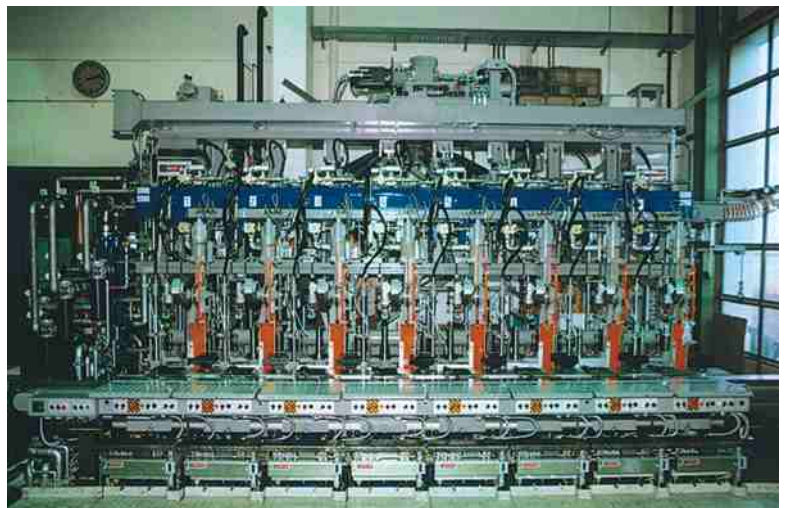
TURMOGEAR®OIL PE - line

- ⚙️ fully synthetic
- ⚙️ colour: light-coloured/transparent
- ⚙️ service temperature range: -30 °C to +180 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ evaporates residue-free
- ⚙️ high water separating ability
- ⚙️ miscible with mineral oil

These oils are suitable for the circulation lubrication of gears and calender bearings.



IS-Moulding machine (P-D Glas- und Feuerfestwerke Wetro GmbH, D-Freital)



IS-Final product finishing machine (P-D Glas- und Feuerfestwerke Wetro GmbH, D-Freital)



Oils:

HITEMPOIL - line

- ⚙ fully synthetic
- ⚙ colour: clear/transparent/light yellow
- ⚙ service temperature range: +20 °C to +350 °C
- ⚙ resistant to temperatures and radiation
- ⚙ neutral towards materials
- ⚙ resistant to oxidation

These oils are used when a high resistance to radiation is required.

SINTONO® VAC - Fluid - line

- ⚙ fully synthetic
- ⚙ colour: clear/transparent
- ⚙ service temperature range: -40 °C to +250 °C
- ⚙ resistant to pressure vacuum and radiation
- ⚙ resistant to media
- ⚙ absolutely non-toxic

These oils are used for the lubrication of rolling and sliding bearings and gears in vacuum pumps.

TURMOTEMP®OIL 400 - line

- ⚙ fully synthetic
- ⚙ colour: clear/transparent
- ⚙ service temperature range: -40 °C to +250 °C
- ⚙ extreme thermal stability, low vapour pressure
- ⚙ good compressibility, hydrophobic and oleophobic
- ⚙ chemically stable, non-combustible
- ⚙ compatible with metals, plastics and rubber

Suitable for vacuum and oxygen installations, hydraulic equipment and for the heat transfer in the high-temperature range. These oils act as insulators in electric and electronic elements. The pressure dependence of the viscosity is small and they have a low surface tension.

ULTRATHERMOIL VG - line

- ⚙ fully synthetic
- ⚙ colour: clear/transparent
- ⚙ service temperature range: -60 °C to +300 °C
- ⚙ good viscosity-temperature behaviour
- ⚙ resistant to pressure, vacuum and radiation
- ⚙ chemically stable, non-combustible

Excellently suitable for the lubrication of gears, rolling and sliding bearings in vacuum pumps up to 10⁻⁹ mbar.



Oil diffusion pump (INFICON AG, SL-Balzers, Liechtenstein)

Greases:

TURMOTEMP® II/400 VAC 1

- fully synthetic
- colour: white
- service temperature range: -35 °C to +280 °C
- extremely low vapour pressure
- good dielectric properties
- compatible with all materials
- non-toxic and non-inflammable
- resistant to oxidation

Suitable for the vacuum range up to 10^{-6} mbar. All points of application have to be cleaned fat-free before use with special detergents, such as TURMOTEMP® OIL 480, acetone, isopropanol or similar products. The full lubricating effect is only achieved on clean, fat-free and dry materials.

TURMOTEMP® II/400 CL 1

- fully synthetic
- colour: white
- service temperature range: -30 °C to +260 °C
- resistant to vacuum and radiation up to 10^8 rad
- non-toxic

For the lubrication of rolling and sliding bearings in the nuclear engineering.

TURMSILON® GTI 5000

- fully synthetic
- colour: white
- service temperature range: -50 °C to +220 °C

For the lubrication of rolling and sliding bearings in the nuclear engineering.

ULTRATHERM 2000

- fully synthetic
- colour: white
- service temperature range: -60 °C to +280 °C
- chemically stable and pressure resistant
- non-toxic and non-combustible
- resistant to oxidation

Has proven successful since many years in the lubrication of rolling and sliding bearings as well as seals in the ultra vacuum range up to 10^{-9} mbar.

ULTRATHERM LS 1503

- fully synthetic
- colour: light beige
- service temperature range: -70 °C to +260 °C
- resistant to vacuum and radiation up to 10^8 rad
- non-toxic

For the lubrication of rolling and sliding bearings in the nuclear engineering.

Graphite dispersion:

NEOLUBE No. 1

- colour: black
- service temperature range: -40 °C to +450 °C
- resistant to radiation up to 10^9 rad

Assembly sliding agent for the application on media wetted surfaces.



Molecular Drag Pumps (Alcatel Vacuum Technology, France)



Oils:

TURMOFLUID® GVK 460

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/clear
- ⚙️ service temperature range: -30 °C to +220 °C
- ⚙️ thermally stable
- ⚙️ low volatility
- ⚙️ neutral behaviour towards elastomers
- ⚙️ excellent wearing protection

Lubrication of energy regulators (7 phase and bimetallic switch), snap-ins, cam plates and eccentric disks, material combinations PA 6.6/nylon/beryllium.

ELASTOLUB® K - line

- ⚙️ fully synthetic
- ⚙️ colour: clear/transparent
- ⚙️ service temperature range: -50 °C to +250 °C
- ⚙️ very good viscosity-temperature behaviour

Silicon containing mould release agent, not overpaintable. Excellent heat transfer oils. Lubricants for plastic/plastic and plastic/metal combinations.

Greases:

TURMOGREASE® GVK 2 TF

- ⚙️ fully synthetic
- ⚙️ colour: light beige
- ⚙️ service temperature range: -25 °C to +250 °C
- ⚙️ neutral behaviour towards elastomers
- ⚙️ excellent wearing protection

It is outstanding for the lubrication of drum controllers in energy regulators.

TURMOTEMP® II/400 KL

- ⚙️ fully synthetic
- ⚙️ colour: white
- ⚙️ service temperature range: -30 °C to +260 °C
- ⚙️ extremely low vapour pressure
- ⚙️ non-toxic, non-combustible
- ⚙️ compatible with all materials

Heavy-duty and high-temperature lubricant for rolling and sliding bearings. All points of application have to be cleaned fat-free before use with special detergents, such as TURMOTEMP® OIL 480, acetone, isopropanol or similar products. The full lubricating effect is only achieved on clean, fat-free and dry materials.

TURMO®SYNTHGREASE W 2502

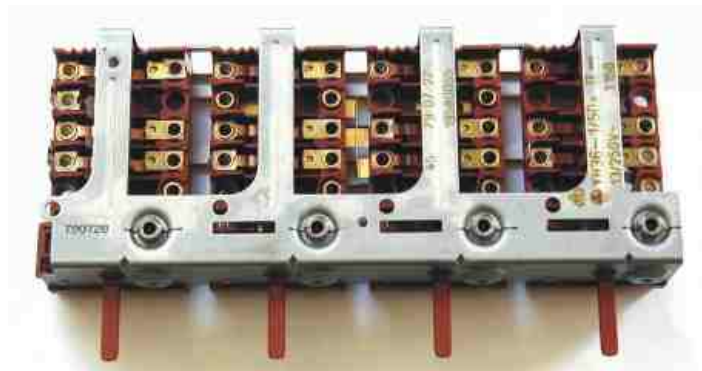
- ⚙️ partly synthetic
- ⚙️ colour: light/beige
- ⚙️ service temperature range: -30 °C to +120 °C
- ⚙️ resistant to cold and hot water as well as to media
- ⚙️ good adhesive properties
- ⚙️ complies with the NSF H1-guidelines
- ⚙️ high wearing protection

Lubrication of gears and bearings in food processors.

THERMOPLEX 2 TML

- ⚙️ fully synthetic
- ⚙️ colour: honey-coloured/transparent
- ⚙️ service temperature range: -35 °C to +160 °C
- ⚙️ low noise

Special heavy-duty, high speed and high-temperature grease for all rolling and sliding bearings, e. g. electric motors.



Quadruple energy-switch (BSH Bosch und Siemens Hausgeräte GmbH, D-Traunreut)

Oils:

TERRASOL W - line

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/transparent
- ⚙️ service temperature range: -40 °C to +160 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ silicon-free, no gumming
- ⚙️ resistant to oxidation
- ⚙️ easily biodegradable

These oils are suitable for the lubrication of machines and devices used in ground water preservation areas. They contain additives which provide good lubricating properties and, furthermore, improve the low temperature behaviour, i. e. they depress the pourpoint.

CORROLUB® HT 161

- ⚙️ fully synthetic
- ⚙️ colour: clear/transparent
- ⚙️ service temperature range: -30 °C to +120 °C
- ⚙️ thin-bodied
- ⚙️ high cleaning effect
- ⚙️ compatible with elastomers and plastics (IIR, NBR, neoprene or PA 6.6, PC, Zytel)
- ⚙️ easily biodegradable

Special oil with excellent creeping and wetting properties. Universally applicable as lubricating and anticorrosion oil with a high cleaning effect.

Greases:

CORROLUB® CAK - line

- ⚙️ mineral
- ⚙️ colour: brown
- ⚙️ service temperature range: -20 °C to +150 °C
- ⚙️ optimum water resistance
- ⚙️ high load carrying capacity
- ⚙️ high metal affinity
- ⚙️ improved friction and wear behaviour

Rolling and sliding bearing greases for low and medium bearing speeds. Multipurpose greases for universal use in marine and harbour applications and also long-term lubricating greases for high specific bearing loads. Suitable for all electric motors, axle bearings, bearings with high sliding friction shares, travel motors, spherical liners, pivoting bearings. Specially developed for vibrations and pressure loads by shocks particularly in the presence of increased bearing temperatures, loads and humid environmental conditions.

CORROLUB® CAN line

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -30 °C to +200 °C
- ⚙️ outstanding high pressure and water resistance
- ⚙️ very good work stability and sealing effect
- ⚙️ long service life with bearings exposed to vibrations and shocks
- ⚙️ for-life lubrication of capsuled rolling bearings

SINTONO® TERRA SK - line

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/transparent
- ⚙️ service temperature range: -40 °C to +120 °C
- ⚙️ high resistance of the lubricating film even at increased temperatures
- ⚙️ excellent water resistance
- ⚙️ very good flowability at low temperatures
- ⚙️ good wearing protection
- ⚙️ easily biodegradable

Universal lubricating grease for the lubrication of wheel flanges and guiding surfaces, rails and rail vehicles.



Container terminal from Rhenania Intermodal in Mannheim (P&O Trans European Management GmbH, D-Mannheim)



■ Oils:

TURMO® DENT H1 plus

- ⚙ fully synthetic
- ⚙ colour: colourless/transparent
- ⚙ service temperature range: -20 °C to +140 °C
- ⚙ good compatibility with elastomers

Used for the maintenance and lubrication of high-speed bearings in dental turbines and drill heads. It is not attacked by water or disinfecting alcohol.

■ Greases:

ELASTOLUB® mv - line

- ⚙ fully synthetic
- ⚙ colour: whitish/transparent
- ⚙ service temperature range: -50 °C to +250 °C
- ⚙ resistant to steam, water and media
- ⚙ non-toxic

Lubrication of sealing elements to improve the sliding ability and to reduce abrasion. Lubricating and sealing pastes for glass cocks in laboratories. Sliding agents for low temperatures, prevent the seals from sticking and freezing on. Behaviour towards solvents and chemicals following DIN 51807, in detail upon request.

TURMOLUB® MA 2

- ⚙ fully synthetic
- ⚙ colour: yellowish/beige
- ⚙ service temperature range: -35 °C to +170 °C
- ⚙ resistant to steam, water and media
- ⚙ good adhesive properties, non-contaminating
- ⚙ resistant to disinfectants
- ⚙ good wearing protection

As assembly lubricant it prevents the formation of fretting corrosion and facilitates unscrewing. Special grease for extreme conditions. In addition, it is outstanding for the lubrication of the swivelling rollers of hospital beds.



K 11 Manual piece (KaVo Elektrotechnisches Werk, D-Leutkirch)

Water fittings - Oil lubrication:

Physiologically recognised as safe, inodorous and tasteless lubricating oils which meet the requirements of § 5 of the German food act (LMBG) and the FDA 21 CFR 178.3570. As NSF registered H1-products their contact with foodstuff is admissible.

TURMSILON® K 6000

- ⚙️ fully synthetic
- ⚙️ colour: colourless/transparent
- ⚙️ service temperature range: -50 °C to +250 °C
- ⚙️ good adhesive properties

Highly viscous silicon oil for the lubrication of cold and hot water fittings, corresponds to the regulatory of WRc and WRAS.

Water fittings - Grease lubrication:

Physiologically recognised as safe, inodorous and tasteless lubricating greases which meet the requirements of § 5 of the German food act (LMBG) and the FDA 21 CFR 178.3570. As NSF registered H1-products their contact with foodstuff is admissible.

TURMOGREASE® GA 280

- ⚙️ fully synthetic
- ⚙️ colour: light brown
- ⚙️ service temperature range: -20 °C to +160 °C
- ⚙️ resistant to cold and hot water as well as to steam
- ⚙️ adhesive
- ⚙️ neutral towards elastomers (NBR, EPDM etc.)

Has especially been designed for the lubrication of single-lever mixers and double tap fittings.

TURMSILON® GL 320

- ⚙️ fully synthetic
- ⚙️ colour: light beige
- ⚙️ service temperature range: -50 °C to +120 °C
- ⚙️ resistant to cold and hot water as well as to steam
- ⚙️ resistant to disinfectants
- ⚙️ neutral towards elastomers (NBR, EPDM etc.), except for silicon caoutchouc

Suitable for the lubrication of cold and hot water fittings, ceramic cartridges, O-rings and single-lever mixers. Approved by KIWA, KTW, WRc and WRAS.

TURMSILON® GTI 6001

- ⚙️ fully synthetic
- ⚙️ colour: white
- ⚙️ service temperature range: -40 °C to +250 °C
- ⚙️ very adhesive
- ⚙️ resistant to cold and hot water as well as to steam
- ⚙️ resistant to disinfectants
- ⚙️ neutral towards elastomers (NBR, EPDM etc.), except for silicon caoutchouc

Suitable for the lubrication of elastomers and ceramic disks in cold and hot water fittings.



WRT-test machine for fittings (archive)



Gas fittings - Greases:

TURMOGREASE® NAK 500 MF

- ⚙ mineral
- ⚙ colour: grey/black
- ⚙ service temperature range: 0 °C to +100 °C
- ⚙ heavy, fibrous, no gumming
- ⚙ resistant to acids, alkalis and oxidation

Grease for the lubrication and sealing of gas cocks. Fitting grease for natural and town gas, propane and butane gas. It is resistant to all gases used in a household. DIN lubricant designation: DIN 3536-0-100 G.

TURMOGREASE® SEB 3

- ⚙ fully synthetic
- ⚙ colour: light brown
- ⚙ service temperature range: -20 °C to +120 °C
- ⚙ extremely adhesive, resistant to acids and alkali
- ⚙ resistant to liquid propane/butane, chlorinated solvents

Special grease to solve special lubrication problems in gas fittings, e. g. in building installations, in gas distributing mains and gas pipelines, in rolling and sliding bearings exposed to extreme service conditions, as lubricating and sealing grease providing extreme resistance to volatile hydrocarbon fuels as well as to car petrol and other hydrocarbons with a low boiling point. It is approved by the DVGW according to DIN 3536-20-120.

TURMOGREASE® GHM 200 plus

- ⚙ mineral
- ⚙ colour: dark brown
- ⚙ service temperature range: 0 °C to +160 °C
- ⚙ heavy, fibrous, no gumming
- ⚙ resistant to gas and oxidation

Grease for the lubrication and optimisation of the sealing effect of gas cocks. Also suitable as fitting grease for natural and town gas, propane and butane gas. The lubricating grease was tested and certified by the DVGW research division at the Engler-Bunte Institute of the University of Karlsruhe. DIN lubricant designation: DIN EN 377, temperature classification E (0 to +160 °C).

Oxygen fittings - Sliding agents:

TURMOXYGEN® LCO 29

- ⚙ fully synthetic, absolutely non-toxic
- ⚙ colour: white
- ⚙ service temperature range: -60 °C to +260 °C
- ⚙ pressure impact limit up to **290 bar/60 °C**

Sliding agent for oxygen fittings in the autogen technology, oxygen lances in the steel processing, oxygen devices in medical areas and for diving stations as well as in rolling and sliding bearings. **Tested and approved** by the **BAM** (German institute for material testing), Berlin.

TURMOXYGEN® - line

- ⚙ fully synthetic, absolutely non-toxic
- ⚙ colour: white/grey
- ⚙ service temperature range: -50 °C to +240 °C
- ⚙ pressure impact limit up to **270 bar/60 °C**
- ⚙ not miscible with synthetic lubricants

TURMOTEMP® II/400 OX

- ⚙ fully synthetic, incombustible
- ⚙ colour: white
- ⚙ service temperature range: -40 °C to +200 °C
- ⚙ pressure impact limit up to **110 bar/60 °C**
- ⚙ compatible with elastomers and all metals

Safety oxygen sliding agent for the lubrication of fittings, sealing elements, slideways and packages in contact with oxygen, e. g. oxygen devices, diving stations and diving equipment as well as in rolling and sliding bearings. All points of application have to be cleaned before use by means of a special detergent. The complete lubricating effect is only achieved on clean, fat-free and dry materials. **Tested and approved** by the **BAM** (German institute for material testing), Berlin.

TURMOTEMP® M 802

- ⚙ fully synthetic, incombustible
- ⚙ colour: white
- ⚙ service temperature range: -60 °C to +220 °C
- ⚙ pressure impact limit up to **150 bar/60 °C**
- ⚙ high chemical stability and resistance to oxidation
- ⚙ low evaporation losses, low pourpoint
- ⚙ compatible with elastomers and all metals



Switch-over board
(ROTAREX S.A., L-7505 Lintgen)

Oils:

ULTRATHERMOIL VG - line

- ⚙️ fully synthetic
- ⚙️ colour: clear/transparent
- ⚙️ service temperature range: -60 °C to +300 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ resistant to pressure, vacuum and radiation
- ⚙️ chemically stable, non inflammable

Outstanding suitability for the lubrication of gears, rolling and sliding bearings in vacuum pumps up to 10^{-9} mbar.

TURMOFLUID® TTO 12 + TTO 24

- ⚙️ partly synthetic
- ⚙️ colour: light-coloured/transparent
- ⚙️ service temperature range: -50 °C to +100 °C
- ⚙️ excellent viscosity-temperature behaviour

Special hydraulic oils for applications at extremely varying temperatures or very low temperatures.



Take-off of Ariane carrier rocket (ESA HQ, Paris Cedex)



Greases:

THERMOPLEX TTF 122

- ⚙️ fully synthetic
- ⚙️ colour: olive-green
- ⚙️ service temperature range: -70 °C to +150 °C

Suitable for the lubrication of rolling and sliding bearings in the aircraft construction. Particularly suitable for the use at extremely varying temperatures.

TURMOGREASE® Li AzR

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -55 °C to +120 °C
- ⚙️ excellent corrosion and wearing protection

Semifluid for the lubrication of control gears in landing flaps of the Airbus fleet. Meets the requirements according to ZFB 831. Approved by Liebherr Aerospace.

TURMOPAST® TAS - WT 000 CRY

- ⚙️ mineral
- ⚙️ colour: grey/black
- ⚙️ service temperature range: -30 °C to +120 °C
- ⚙️ good adhesive properties
- ⚙️ metal affinity

Special grease containing solid lubricants for highly loaded sliding surfaces. Excellent high pressure and anticorrosion properties.

ULTRATHERM 2000

- ⚙️ fully synthetic
- ⚙️ colour: white
- ⚙️ service temperature range: -60 °C to +280 °C
- ⚙️ chemically stable and pressure resistant
- ⚙️ non-toxic and non-combustible
- ⚙️ resistant to oxidation

Has proved successful over many years in the lubrication of rolling and sliding bearings as well as of seals in the ultra vacuum range up to 10^{-9} mbar.

Sprays:

TURMOLYB® MDC

- ⚙️ colour: grey/black
- ⚙️ service temperature range: -180 °C to +450 °C
- ⚙️ pressure resistant
- ⚙️ extremely adhesive

MoS₂-containing dry bonded coating for the lubrication of sealing rings, threads and sliding surfaces at low and high temperatures.

TURMOPAST® TF

- ⚙️ colour: white
- ⚙️ service temperature range: -180 °C to +260 °C
- ⚙️ pressure resistant
- ⚙️ extremely adhesive

PTFE dry bonded coating for the lubrication of sealing rings, threads and sliding surfaces at low and high temperatures.



Landing flap actuator system on the long-haul Airbus A 330/A 340

Oils:

Optimum wearing protection and high lubricating film resistance ensure a reliable application in the rail lubrication (guiding surfaces, running edges, switches, switch tongues). According to the criteria of the OECD, they are classified as easily degradable, they provide a very good water resistance and protect against corrosion.

TERRASOL W - line

- ⚙️ fully synthetic
- ⚙️ service temperature range: -30 °C to +120 °C
- ⚙️ good viscosity-temperature behaviour
- ⚙️ no gumming
- ⚙️ resistant to oxidation
- ⚙️ easily biodegradable

Universal oils for the ecofriendly lubrication of rails, curves, switches as well as of machines and devices used in ground water preservation areas. They contain additives which provide good lubricating properties and, furthermore, improve the low temperature behaviour, i. e. they depress the pourpoint.

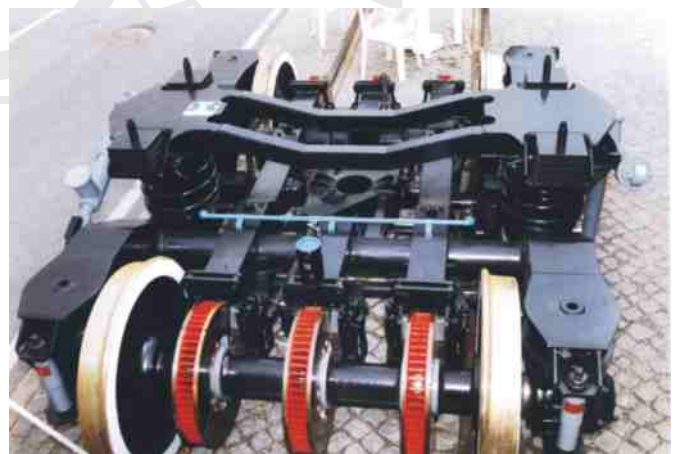
SINTONO® TERRA Super

- ⚙️ fully synthetic
- ⚙️ colour: greenish
- ⚙️ service temperature range: -40 °C to +140 °C
- ⚙️ medium-viscous, fibrous
- ⚙️ excellent wearing protection

Special product for the lubrication of running edges and guiding surfaces. With small quantities of lubricant it is possible to reduce or eliminate surface damage, such as slight undulations, pittings, etc. by chemical abrasive wear. This modern method leads to a fairly good surface quality. Beginning cracks can be removed this way.



ICE wheel bearing (FAG, D-Schweinfurt)



Revolve stand (archive)



Greases:

SINTONO® TERRA HL - line

- ⚙️ fully synthetic
- ⚙️ colour: silver
- ⚙️ service temperature range: -40 °C to +140 °C

Special lubricants for the lubrication of guiding surfaces providing good water resistance.

SINTONO® TERRA SK - line

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/transparent
- ⚙️ service temperature range: -40 °C to +120 °C
- ⚙️ excellent water resistance
- ⚙️ very good flowability at low temperatures
- ⚙️ optimum wearing protection
- ⚙️ easily biodegradable

Applicable for the lubrication of running edges and wheel flanges.

SINTONO® TERRA W - line

- ⚙️ fully synthetic
- ⚙️ colour: yellowish/transparent
- ⚙️ service temperature range: -40 °C to +120 °C
- ⚙️ excellent water resistance
- ⚙️ very good flowability at low temperatures
- ⚙️ optimum wearing protection
- ⚙️ easily biodegradable

They can be used as multipurpose grease/switch lubricants through-out the whole year. Lubricating greases which are regarded as easily degradable according to the criteria of the OECD-Guideline for Testing of Chemicals 301 C.

TERRAGLISS WZ

- ⚙️ fully synthetic
- ⚙️ colour: beige
- ⚙️ service temperature range: -40 °C to +130 °C

Special product for the lubrication of switch tongues. Hardly binds any dirt or dust.

Quickly Biodegradable Special Grease SINTONO® TERRA SK

Degrading Behaviour

Micro-organisms such as bacteria, moulds or alga cause the biological degradation of organic substances by transforming them. The transformation eventually results, besides water and CO₂, in inorganic compounds innocuous to nature.

Classification acc. to CEC-L-33-T-82

Degradability: > 70%	= biologically quickly degradable
after 21 days 20 - 70%	= biologically potentially degradable
< 20%	= hard-degradable

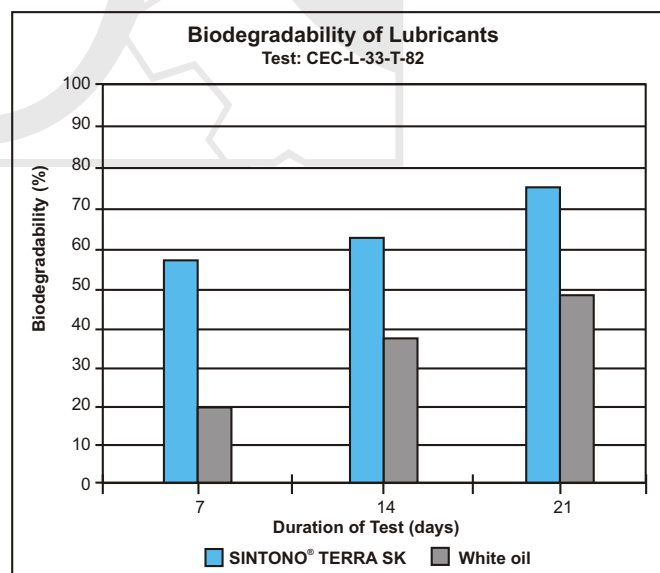
Test Method

CEC-L-33-T-82

150 ml of mineral nutritive solution with approx. 7.5 mg of test substance (lubricant) are prepared with 1 ml of inoculum (bacteria culture from sewage plants). The degradation of the test substance caused by the bacteria cultures is observed over 21 days.

Long-Term Application

The **LUBCON Bio-lubricants** can be used for long-term and lifetime lubrication without reservations, although they are quickly biodegradable. The biological degradation only starts when the lubricant penetrates in small quantities into water



and/or soil. Working with biologically quickly degradable products requires the same care as it is appropriate with standard lubricating greases. Each avoidable contamination contributes to preserve the environment.

Greases:

THERMOPLEX 2 HPL

- fully synthetic
- colour: beige
- service temperature range: -40 °C to +180 °C

High-speed grease with low start-up friction suitable for high mechanical loads in the lubrication of belt tighteners.

THERMOPLEX 2 TML Special

- fully synthetic
- colour: yellow
- service temperature range: -60 °C to +140 °C

Low-temperature high-speed grease with low coefficients of friction and low start-up friction for the lifetime lubrication of starters.

TURMOGREASE® N 502

- fully synthetic
- colour: yellowish
- service temperature range: -50 °C to +180 °C
- good resistance to media

High and low temperature grease with excellent lubricating properties. High-speed grease for the lubrication of generators.

TURMOGREASE® N 7501 K

- fully synthetic
- colour: light beige
- service temperature range: -40 °C to +160 °C
- excellent resistance to media

Very adhesive special grease providing excellent compatibility with elastomers for the lubrication of seat sliding rails in car seats.

TURMO®GEL HVS 161

- fully synthetic
- colour: brown
- service temperature range: -40 °C to +120 °C
- good corrosion and wearing protection
- biodegradable

Special lubricant for height adjustment mechanisms in cars.

TURMOGREASE® RVS

- fully synthetic
- colour: beige
- service temperature range: -50 °C to +140 °C
- resistant to wear

Special grease for the long-term and lifetime lubrication of seat rails and backrest adjustment mechanisms.

TURMOGREASE® SKL 18

- fully synthetic
- colour: light beige
- service temperature range: -50 °C to +130 °C
- good wearing protection

Smooth operation grease with low coefficients of friction even at high speeds for electric window winders.

TURMO®SYNTHGREASE GL 320

- partly synthetic
- colour: yellowish
- service temperature range: -15 °C to +120 °C
- low moment of friction
- biodegradable

Ideal lubricant with good sliding properties for different material combinations and specially for the lubrication of sun visors.

TURMOTEMP® II/400 dI fluid

- fully synthetic
- colour: white
- service temperature range: -45 °C to +180 °C
- excellent resistance to oxidation
- outstanding wearing protection

Lubricant dispersion for the lubrication of exterior mirror adjusters.

TURMOTEMP® LM 182

- fully synthetic
- colour: light beige
- service temperature range: -50 °C to +150 °C
- good compatibility with elastomers

Special grease with good smooth operating properties for special applications in stepper motors.

**TURMOFLUID® ED 13**

- ⚙ colour: clear/transparent
- ⚙ service temperature range: -45 °C to +150 °C
- ⚙ silicon-free, thin-bodied
- ⚙ high creeping capacity
- ⚙ prevents squealing noise
- ⚙ good corrosion protection

An universal oil for all repair works. Rust-in or tight hinges or guides are released and work smoothly. Suitable for the lubrication of machines, machine parts and chains in the measuring and control technique, in the construction of machines and tools as well as in the foodstuff and plastics.

TURMOFLUID® 40 B

- ⚙ fully synthetic
- ⚙ colour: yellowish
- ⚙ service temperature range: -30 °C to >+250 °C
- ⚙ good viscosity-temperature behavior, low evaporation loss
- ⚙ high load carrying capacity, silicon-free, does not polymerise
- ⚙ resistant to oxidation, good wearing protection

Due to very good creeping properties and EP additives to reduce wear, it is particularly well suitable for the lubrication of chains.

TURMOFLUID® 300 OM

- ⚙ fully synthetic
- ⚙ colour: green/transparent
- ⚙ service temperature range: -5 °C to +240 °C
- ⚙ good creeping properties, stays supple in the cold, adhesive
- ⚙ silencing, high load carrying capacity

Adhesive spray for outdoor chains and cables, oil-tight couplings (curved teeth), non-contaminating, therefore suitable for open drives, residue-free high-temperature lubrication.

TURMOLYB® PSP

- ⚙ colour: grey/black
- ⚙ service temperature range: -40 °C to +450 °C
- ⚙ containing MoS₂
- ⚙ low coefficient of friction

Easily applicable paste spray for all assembly works. Suitable for the lubrication of sliding bearings, threaded spindles, guideways, tensioning elements, wedge connections, toothed wheels and racks, bolts and screwed connections.

TURMOLYB® MDC

- ⚙ colour: grey/black
- ⚙ service temperature range: -180 °C to +450 °C
- ⚙ pressure resistant
- ⚙ extremely adhesive

MoS₂-containing dry bonded coating for the lubrication of friction and slide faces in a dusty or aggressive environment. Suitable for silicon seals in sterilizers, resistant to vacuum, radiation and extreme temperatures.

TURMOLYB® WG

- ⚙ colour: white
- ⚙ service temperature range: +5 °C to +800 °C
- ⚙ water resistance
- ⚙ high thermal stability

High-temperature bonded coating with good separating properties up to +1000 °C. Also suitable as sealing material and especially for the chain lubrication of annealing furnaces, burning and drying kilns and as a universal, non-adherent separating and sliding agent.

RAPID GT

- ⚙ colour: black
- ⚙ service temperature range: -18 °C to +450 °C
- ⚙ high water resistant

Purest graphite spray for the treatment of sealing faces and the lubrication of sliding surfaces in dusty surroundings or when exposed to much water.

RAPID GÖ

- ⚙ colour: grey/black
- ⚙ service temperature range: -30 °C to +150 °C

Graphite oil as a lubricant for all industrial branches and applications.

GRIZZLYGREASE® No. 1

- ⚙ colour: dark brown
- ⚙ service temperature range: -30 °C to +150 °C
- ⚙ heat resistant
- ⚙ good wearing protection

Suitable for a vast range of applications at high temperatures combined with extreme loads. To be used for ball and roller bearings as well as for sliding bearings, liners and open gear drives.

KORROQUICK

- ⚙ colour: brownish/clear
- ⚙ excellent creeping properties, very adhesive
- ⚙ high corrosion protection

Excellently suitable as moisture repellent, quick rust dissolver, cleaning fluid and lubricant for all industrial branches and applications.

PROFIOIL - Spray

- ⚙ partly synthetic
- ⚙ good creeping properties
- ⚙ optimum wetting properties
- ⚙ good protection against corrosion and wear

Lubricating and cutting agent for the metal working industry, it increases tool-life. Chain oil for all industrial branches, protects all points to be lubricated in the trades, do-it-yourself sector and household.



C E R T I F I C A T E

DQS GmbH

Deutsche Gesellschaft zur Zertifizierung von Managementsystemen

hereby certifies that the company



LUBRICANT CONSULT GMBH

Gutenbergstraße 13
63477 Maintal

for the scope

Special Lubricants

has implemented and maintains a

Quality and Environmental Management System.

Audits, documented in a report, have verified that this management system fulfills the requirements of the following standards:

DIN EN ISO 9001 : 2000

December 2000 edition

DIN EN ISO 14001

October 1996 edition

This certificate is valid until 2006-02-18

Certificate Registration No.: 017581 QM/UM

Frankfurt am Main, Berlin 2003-02-19



Dr.-Ing. K. Petrick



Dipl.-Ing. S. Heinloth

MANAGING DIRECTORS

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THE INTERNATIONAL CERTIFICATION NETWORK
CERTIFICATE

IQNet and
DQS GmbH Deutsche Gesellschaft zur Zertifizierung von Managementsystemen
hereby certify that the company

LUBRICANT CONSULT GMBH

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Frankfurt am Main, Berlin 2003-02-19

Registration Number: DE-017581 QM/UM




Dr. Fabio Roversi
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S. Heinloth
Managing Directors of DQS GmbH


Dr. K. Petrick
Managing Directors of DQS GmbH



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