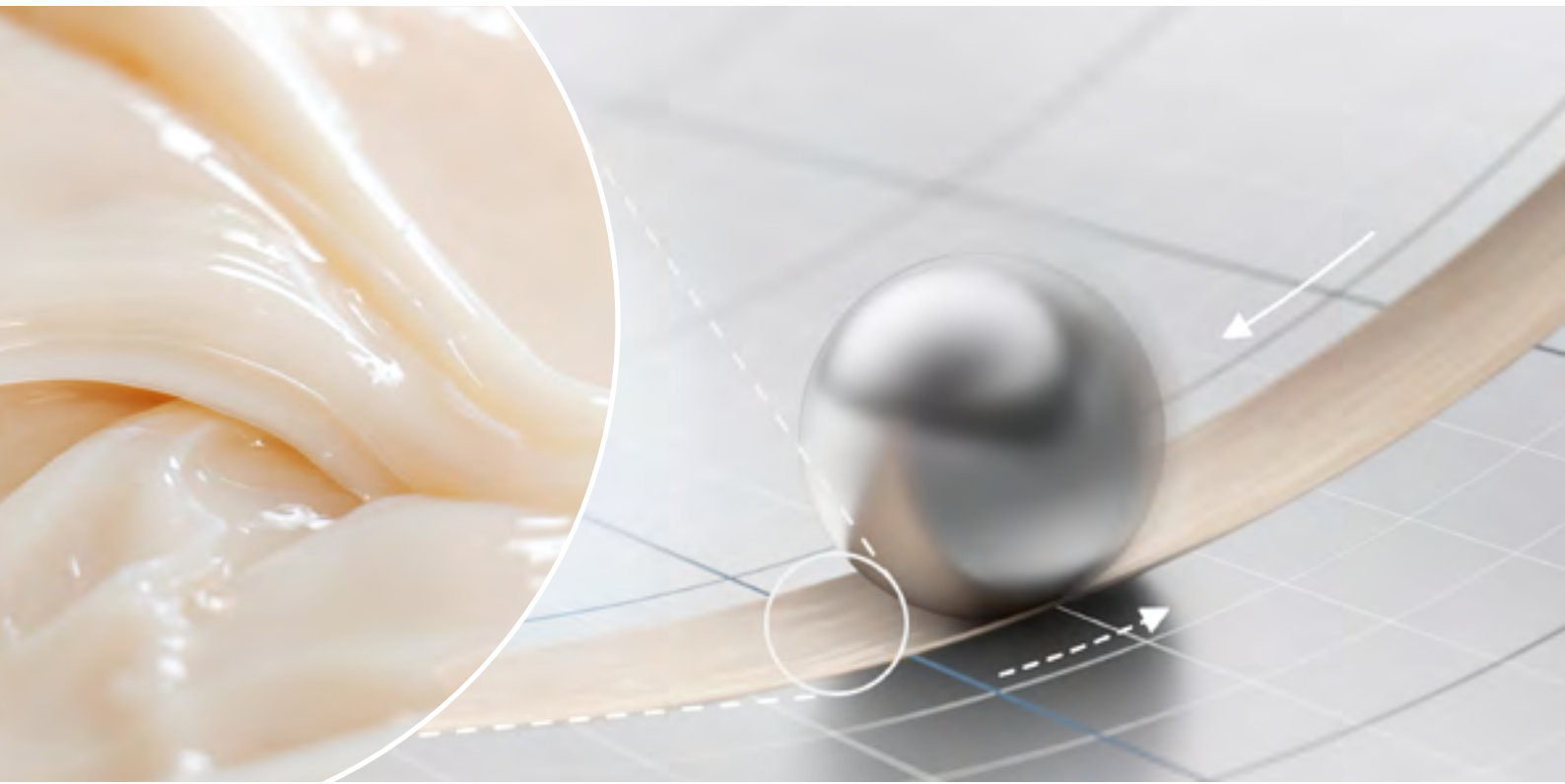




TUNAP

Solutions for the industry

CLEAN | LUBRICATE | PROTECT



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TUNAP

Company divisions



Industry

TUNAP develops and manufactures high-performance and specialist lubricants for a wide range of industrial sectors – from heavy industry and the food sector to the plastics industry. Our portfolio comprises a wide range of products and services covering the entire process chain for our customers.



Private labels

In strategic alliances, TUNAP develops and produces TUNAP products and ranges for the distribution of technical maintenance and care products. Its customers include wellknown manufacturers and companies in the wholesale and retail sectors. Our laboratory offers individualised and customer-specific developments on request, thus ensuring sustainable performance.



Tunap Sports

TUNAP offers innovative consumer concepts for high-end bicycle technology. TUNAP SPORTS customers enjoy top-of-the-line cycling products. The range is rounded out by cosmetic and skin care products for cyclists.



Automotive

TUNAP is a service partner for vehicle manufacturers, car dealerships and garages. Our range includes chemical and technical products for maintenance, repairs and troubleshooting across all areas of the vehicle: from the engine, brakes and bodywork to the air conditioning system and the maintenance and care of the interior. TUNAP is a partner to virtually all major vehicle manufacturers.



TUNAP subsidiaries



TUNAP distributors



TUNAP – We protect what matters.

TUNAP stands for passion and expertise in the field of chemical products. Our particular strengths lie in the area of specialist lubricants and cleaning agents. Thanks to our in-house development and production, our customers benefit from our comprehensive product knowledge.

With products for a wide range of industries and applications, we have set ourselves the goal of improving people's daily lives. That is why we inspire our partners with intelligent product concepts, applications and service of the highest quality. Through bespoke solutions, we contribute to personal well-being, health and the conservation of resources, and demonstrate how we can fulfil our shared responsibility for sustainability. Our aim is to deliver the very best quality whilst meeting the highest standards in terms of health and environmental compatibility.



Million in turnover



Companies



Plants



Employees

TUNAP

Production facilities



TUNAP manufactures and distributes a comprehensive range of chemical-technical products across several production sites, catering to a wide variety of industrial sectors, as well as retail and manufacturer brands in the engineering sector, and products and systems for the maintenance and repair of machinery and vehicles.



Wolfratshausen

The company’s headquarters, which is also one of its three production sites, is located in Wolfratshausen, near Munich. The central research and development department is also located here.

The following are developed and produced at the Wolfratshausen site:

- ✓ Chemical and technical products and services for the automotive sector, covering maintenance, repairs and problem-solving
- ✓ High-performance and specialist lubricants for a wide range of industrial applications, from heavy industry and the food sector to the plastics industry
- ✓ Product ranges for private-label distribution in the technical, drugstore and multi-level retail sectors

This production site is certified to ISO 9001 (quality management), ISO 14001 (environment), ISO 45001 (occupational health and safety) and ISO 21469 (H1 lubricants).



Lichtenau

The following are produced in Lichtenau:

- ✓ Aerosol cans up to 300 mm in height, in standard and custom sizes
- ✓ Aerosol products on six filling machines
- ✓ Chemical and technical aerosols for own-brand, third-party and private-label products

The propellants processed by TUNAP include propan-butane mixtures, dimethyl ether, nitrogen, CO₂ and air.

This production site is certified to ISO 9001 (environment), ISO 14001 (environmental management), ISO 45001 (occupational health and safety) and ISO 21469 (H1 lubricants)



Märstetten

The following are produced in Märstetten:

- ✓ Aerosols and liquids for the international market
- ✓ Brake cleaner, rust remover and lubricant

The propellants used are propane, butane and CO₂.

The plant is equipped with several bottling lines, which produce up to 45 million cans a year.

These systems are state-of-the-art in terms of performance and safety. The lines operate in shifts and produce 50 to 60 aerosol cans per minute.

TUNAP

Solutions for more sustainability

We work together. Worldwide.

As a long-established family-run business, protecting our environment has always been close to our hearts. We therefore see it as our duty to play our part by developing sustainable solutions in the field of lubricants, greases and aerosols, thereby helping to ensure that the world remains a place worth living in.

Our aim is to meet the highest standards in terms of health and environmental safety, whilst still developing products of the highest possible quality and providing our customers with effective technologies and high-performance lubricants that deliver outstanding performance.

That is why we place great importance on the continuous improvement of ingredients and product packaging. Furthermore, we always take a holistic approach to product development, striving to create solutions that can be used for a wide range of applications. With a view to improving overall processes, our high-performance lubricants not only help to reduce environmental impact, but also minimise operating costs for our customers and users in many areas.

By providing smart, bespoke solutions that we tailor to our customers' needs and circumstances, we make a significant contribution to health, resource conservation and cost-effectiveness.

In addition to ensuring the safety of people and equipment, the use of TUNAP's high-performance lubricants has a significant impact on the functionality and service life of components, and thus plays a crucial role in achieving sustainability goals.



We think along. We think on.
We think ahead.
For you and with you.



Our products, your advantages:

- ✓ Reducing friction and preventing wear and tear on machinery and equipment
- ✓ Extension of maintenance intervals
- ✓ Surface protection and prevention of breakdowns
- ✓ Improving energy efficiency

Our products, your benefits:

- ✓ Conservation of resources
- ✓ Reduction in CO₂ emissions
- ✓ Extending the service life of components
- ✓ Avoiding costly repairs and costly production downtime



Our products, your profit:

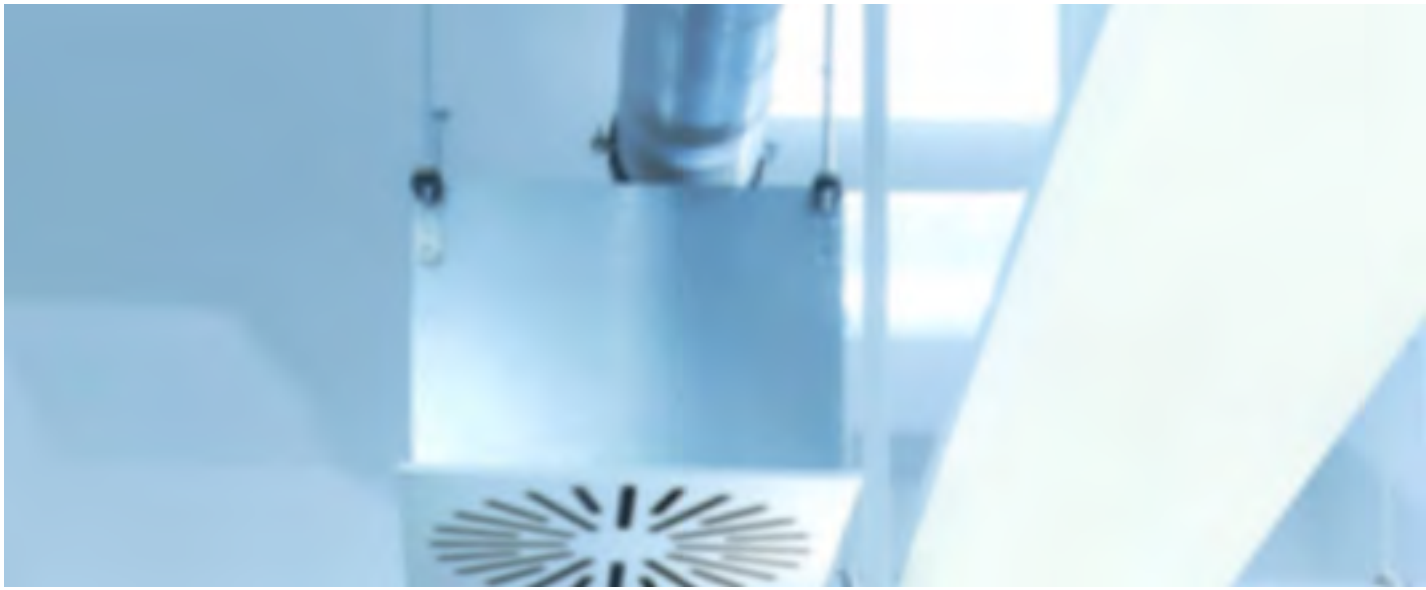
- ✓ Reduced environmental impact
- ✓ Time saving
- ✓ Lower energy costs
- ✓ Cost savings for machine operators, as there are fewer breakdowns and faults to deal with
- ✓ Higher utilisation and improved efficiency of your machinery and equipment

Memberships and Certifications as a sign of our commitment

In order to continually expand our knowledge and play an active role in shaping the industry, TUNAP is a member of, amongst others, the Aerosol Industry Association (IGA), the Verband der Chemischen Industrie (VCI), the Verband der Schmierstoff Industrie (VSI), the European Lubricating Grease Institute (ELGI), the Gesellschaft für Tribologie (GFT), the Verband der Wellpappe-Industrie (VDW) and the Deutsche Institut für Normung (DIN).

We also work in partnership with Ökoprofit and are a member of the Environmental Pact.

As a lubricant manufacturer, TUNAP is aware of its special responsibility. We demonstrate our high standards of efficiency and environmental and health compatibility through various registrations and certifications:



Certifications as a mark of quality

With its ISO 21469 certification, TUNAP meets the most comprehensive hygiene requirements for the production of H1 lubricants. This internationally recognised certification represents the highest level of safety, reliability, and product responsibility.

The standard requires a holistic assessment of the entire life cycle of an NSF H1 product. Strict control of the formulation – including ingredients, production, handling, packaging, storage, and application – ensures the highest quality standards. With two additional certifications, TUNAP demonstrates a robust quality and environmental management system. Sustainability is a key pillar of the company's strategy, as evidenced by its ISO 14001 certification. ISO 9001 certification further confirms TUNAP's consistent and reliable quality management, ensuring a high level of product and service excellence.



Success through passion

For 50 years, TUNAP has been synonymous with success and outstanding quality. We are specialists in solutions for pastes, lubricating greases, lubricating oils, cleaners, and maintenance products. At the same time, we continuously strive to make the ingredients, packaging, and application of our lubricants more sustainable.

Lubrication solutions for every requirement

Higher, faster, further:

the demands placed on modern engineering solutions are constantly increasing. This also challenges lubrication technology and tribology to develop ever more efficient and advanced solutions. We are the right partner at your side.

Our engineers and scientists in development, research, and application engineering create solutions tailored precisely to your requirements and applications.

TUNAP works.



Pastes

Pastes for the smooth operation of your machines

Whether for high-temperature applications, protection against fretting corrosion, support during assembly and disassembly, or to prevent stick-slip: our pastes deliver reliable performance even under challenging production conditions. They are ideal for applications requiring high load-carrying capacity, exceptional emergency running properties, and long-term resistance to aggressive media. Innovation and quality are at the core of our pastes, enabling not only cost savings through reduced wear and extended maintenance intervals, but also maximising the reliability of plant and machinery.

Our portfolio includes:

- ✓ Lubricating pastes
- ✓ Assembly and release pastes
- ✓ Metal-containing release pastes
- ✓ Metal-free pastes

TUNAP

Product range overview



Lubricating greases

Lubricating greases for many industrial and mechanical application

With our wide range of high-performance lubricating greases, we offer solutions tailored to the requirements of numerous industrial sectors. Our product portfolio covers a variety of operating conditions, applications, and industries. Our high-quality lubricating greases open up new potential, particularly in demanding environments with extreme temperatures and high loads, while also enhancing energy efficiency and extending relubrication intervals and component service life.

Our portfolio includes:

- ✓ Calcium sulphonate complex greases
- ✓ Aluminium complex greases
- ✓ Lithium greases
- ✓ PTFE greases
- ✓ Bentonite greases
- ✓ Inorganically thickened greases



Lubricating oils

Optimal solutions for specific requirements

Our portfolio of high-performance lubricating oils ranges from multipurpose oils and gear oils to specialty oils for medical technology. Our products not only enhance the reliability and process safety of our customers' production processes, but also offer significant cost savings through extended oil change intervals and longer service life for machines and systems. Our lubricating oils provide the optimum tribological solution for lubricating systems and components, as their formulations are precisely tailored to the specific requirements of each application.

Our portfolio includes:

- ✓ Multi-purpose oils
- ✓ Chain oils
- ✓ Gear oils
- ✓ Compressor oils
- ✓ Glass machine oils
- ✓ Cutting oils
- ✓ Hydraulic oils
- ✓ Inert and silicone oils
- ✓ Speciality oils



Cleaners

For removing stubborn dirt

Our cleaners reliably remove stubborn dirt and residues. Our focus is on maximising performance while minimising health risks for your employees and users. Effective cleaning is often crucial to the success of subsequent processes, such as surface coating, and therefore has a direct impact on the value creation of manufacturing companies.

Our portfolio includes:

- ✓ Solvent cleaners
- ✓ Safety cleaners
- ✓ Aqueous cleaners



Maintenance products

For a high degree of purity and lubrication

Our range of high-performance maintenance products supports maintenance teams in cleaning, lubricating, and protecting components and surfaces. Supplied in aerosol form, these products offer easy handling and precise application exactly where needed. They make a significant contribution to improving maintenance efficiency and reducing production costs. At the same time, they help extend the service life of machinery, reduce repair and spare parts costs, and conserve valuable resources.

Our portfolio includes:

- ✓ Multi-purpose oils
- ✓ Grease sprays
- ✓ rust remover
- ✓ Dry lubricants and anti-seize compounds
- ✓ Wax sprays
- ✓ Release pastes and lubricants
- ✓ Silicone sprays
- ✓ Protective coatings



PASTES

Highest reliability through optimal separation, protection, and outstanding lubrication performance



TUNAP Pastes

Lubricating pastes

TUNPAS WP – WHITE ASSEMBLY PASTE

Product description	Advantages	Area of application	Technical data
Adhesive, lubricating and assembly paste for high temperatures with protection against tribocorrosion Suitable cleaners: TUNCLEAN 895 915 Packaging: 100 g tube 1 kg can 20 kg hobbock	✓ Non-contaminating ✓ Neutral towards most synthetic materials ✓ Very high load-bearing capacity ✓ Prevents tribocorrosion ✓ Effective for lubrication and release ✓ Prevents stick-slip ✓ For reliable installation thanks to consistent preload forces ✓ Particularly suitable for the easy removal of parts treated with it, even after prolonged use and under extreme conditions	✓ In conditions of high temperatures, high pressure and corrosive influences ✓ Assembly lubrication for screw and plug-in connections ✓ Flanges and gaskets – to prevent seizing, carbon build-up, welding and bonding ✓ On boilers, engines, turbines, equipment, fittings and exhaust gas ducts ✓ Chemical and petrochemical plants, refineries, ceramics, glass and metallurgical plants, drying plants and furnaces	✓ Colour: white ✓ Density (20°C) [g/cm³]: 1.2 ✓ Base oil: synthetic ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 2200 ✓ Operating temperature [°C]: -30 to 250 ✓ Dry lubrication up to 1450°C

Assembly and soldering pastes

TUNPAS H1 – HIGH-PERFORMANCE PASTE

Product description	Advantages	Area of application	Technical data
Fully synthetic, high-performance white paste with NSF H1 certification, based on high-quality solid lubricants Recommended cleaners: TUNCLEAN 700 916 Packaging: 100 g tube 1 kg can 25 kg hobbock	✓ For reliable installation thanks to consistent preload forces ✓ Particularly suitable for the easy disassembly of parts treated with it, even after prolonged use and under extreme conditions ✓ Adhesive and water-resistant ✓ Excellent corrosion protection ✓ Reliable wear protection ✓ Prevents stick-slip, even at low sliding speeds	✓ For the lubrication and separation of components in the food and beverage industry that are exposed to high static and dynamic loads. These include, for example, screw connections, slide guides, plain bearings and screw drives ✓ Assembly and disassembly work is made easier, and fretting corrosion is prevented ✓ The paste exhibits good adhesion and durability even when exposed to water	✓ Colour: white ✓ Density (20°C) [g/cm³]: 1.12 ✓ Base oil: synthetic ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-4) [N]: 7000 ✓ Operating temperature [°C]: -40 to 200 ✓ Dry lubrication up to 1000°C





TUNPAS MS – MOS₂ ASSEMBLY PASTE

Product description	Advantages	Area of application	Technical data
Synthetic assembly paste with inorganic thickener and MoS ₂ . Recommended cleaner: TUNCLEAN 895 915 Packaging: 400 ml spray can 1 kg can	✓ High load-bearing capacity and low coefficients of friction ✓ Particularly suitable for running-in lubrication ✓ Outstanding wear protection and release properties protect the surface ✓ Special solid lubricant combinations prevent stick-slip ✓ For reliable assembly lubrication through constant preload forces	✓ For initial lubrication during all assembly work ✓ For running-in guides, bearings, joints and sliding lubrication ✓ To protect surfaces when fitting interference and press fits ✓ To protect bolted joints and ensure consistent friction coefficients ✓ In metal forming, to prevent tool damage, reduce pressing forces and improve the surface finish of workpieces	✓ Colour scheme: grey ✓ Density (20°C) [g/cm³]: 0.86 ✓ Base oil: synthetic ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 3200 ✓ Operating temperature [°C]: -40 to 200 ✓ Dry lubrication up to 450°C or, in an oxygen-free environment, up to 650°C

Metal-containing release pastes

TUNPAS AL – ALUMINIUM PASTE

Product description	Advantages	Area of application	Technical data
Synthetic metal-containing release pastes containing an inorganic thickener, metal pigments and a synergistic combination of additives Recommended cleaner: TUNCLEAN 895 915 Packaging: 1 kg can	✓ Resistant to high and low temperatures ✓ Protects against corrosion, wear and oxidation ✓ Prevents seizing, sticking, coking and sooting ✓ Adhesive, water-resistant	✓ In mechanical and plant engineering for base and cutting lubrication at highly loaded sliding points ✓ For boilers, turbines, engines and all components exposed to high temperatures ✓ For fittings, flanges, screw connections and plug connections ✓ For guides, slide rails and plain bearings ✓ In the chemical and petrochemical industries, at refineries, glassworks and smelting works	✓ Colour: silver ✓ Density (20°C) [g/cm³]: 1.1 ✓ Base oil: synthetic ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 2200 ✓ Operating temperature [°C]: -30 to 250 ✓ Dry lubrication up to 1000°C

TUNPAS CU – COPPER PASTE

Product description	Advantages	Area of application	Technical data
Synthetic metal-containing release paste containing an inorganic thickener, copper pigments and a synergistic combination of additives. Recommended cleaners: TUNCLEAN 895 915 Packaging: 1 kg can	✓ For reliable assembly thanks to consistent preload forces ✓ Particularly suitable for the easy removal of parts treated with it, even after prolonged use and under extreme conditions ✓ Effective for lubrication and separating ✓ Good sealing against dust ✓ Protects against wear, corrosion and oxidation ✓ Adhesive and water-resistant	✓ Assembly lubrication for screw and plug, flanges and seals, to prevent seizing, carbon build-up, welding and sticking ✓ In conditions of high temperatures, high pressure and corrosive influences loads ✓ On boilers, engines, turbines, equipment, fittings, flanges and exhaust gas ducts ✓ Chemical and petrochemical plants, refineries, ceramics, glass and metallurgical plants, drying plants and furnaces	✓ Colour: copper ✓ Density (20°C) [g/cm³]: 1.2 ✓ Base oil: synthetic ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 110 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 3400 ✓ Operating temperature [°C]: -35 to 250 ✓ Dry lubrication up to 800°C

Metal-free pastes

TUNGREASE CF-33

Product description	Advantages	Area of application	Technical data
Metal-free grease paste for lubrication, release and corrosion protection Recommended cleaner: TUNCLEAN 895 Also available as a brush box Packaging: 400 ml spray can 500 g cartridge 5 kg bucket 25 kg hobbock	✓ A soft, multi-purpose paste for lubricating heavily loaded sliding surfaces ✓ Maximum pressure capacity and excellent cutting performance ✓ Highly adhesive and particularly water-resistant ✓ High resistance to salt water ✓ Reduces friction and wear ✓ Reduces corrosion and tribocorrosion	✓ For base and thin-film lubrication, to reduce friction and wear ✓ As a release agent to ensure reliable, trouble-free disassembly and to prevent fretting corrosion ✓ For fittings, flanges, screw connections and plug connections ✓ For guides, slide rails and bearings ✓ At refineries, glassworks and smelting works	✓ Colour scheme: blue ✓ Density (20°C) [g/cm³]: 1.29 ✓ Base oil: mineral oil ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 180 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 7500 ✓ Operating temperature [°C]: -20 to 200



LUBRICATING GREASES

Optimisation of machinery and systems with high-performance products designed for a wide range of temperatures and loads, ensuring long-lasting performance and maximum efficiency.



TUNAP Lubricating greases

Calcium sulphonate complex greases

TUNGREASE CK-2 – HIGH-LOAD GREASE

Product description	Advantages	Area of application	Technical data
High-pressure grease with high wear and corrosion protection Recommended cleaner: TUNCLEAN 895 915 Packaging: 400 g cartridge 1 kg can 25 kg hobbock	✓ High-pressure grease with a wide range of applications ✓ High sealing and adhesive properties ✓ Ageing- and shear-stable ✓ Optimal wear protection and extended component life thanks to high load-bearing capacity ✓ Reliable lubrication even in the presence of water or in outdoor applications, thanks to exceptional water resistance and high corrosion protection ✓ Support for reducing the number of varieties ✓ Resistant to cold and hot water ✓ Dirt- and water-repellent	✓ Heavy-duty rolling and plain bearings for medium speeds and unfavourable environmental conditions, as well as long-term lubrication in all areas of mechanical engineering ✓ In all weather conditions, in wet conditions, in dusty environments, under vibration, shock loads and high-pressure conditions ✓ In general wet areas, in the textile finishing industry, in filling stations, the paper industry and leather processing ✓ In high-temperature applications: on autoclaves, fan bearings, furnace bearings, deflection wheels, guides and joints	✓ Colour: brownish ✓ Density (20°C) [g/cm³]: 1 ✓ Base oil: mineral oil ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 180 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 4800 ✓ Operating temperature [°C]: -20 to 140 ✓ Designation in accordance with DIN 51502: KP 2 N-20

TUNGREASE CM-2/460 – HIGH-PRESSURE GREASE

Product description	Advantages	Area of application	Technical data
A versatile high-pressure grease-offering high protection against wear and corrosion Recommended cleaner: TUNCLEAN 895 915 Packaging: 18 kg hobbock 180 kg barrel	✓ Optimal wear protection and extended component life thanks to high load-bearing capacity ✓ Reliable lubrication even in the presence of water or in outdoor applications, thanks to exceptional water resistance and high corrosion protection ✓ A versatile, high-performance grease designed to help reduce the number of product variants ✓ High resistance to wear and corrosion ✓ High sealing and adhesive properties	✓ Heavy-duty rolling and plain bearings at medium speeds and under adverse environmental conditions, as well as for long-term lubrication in all areas of mechanical engineering ✓ In all weather conditions, in wet conditions, in dusty environments, under vibration, shock loads and high-pressure conditions ✓ In general wet areas, in rolling mills for steel production, in the textile finishing industry, in filling stations, the paper industry and leather processing ✓ In high-temperature applications: on autoclaves, fan bearings, furnace bearings, deflection wheels, guides and joints	✓ Colour: brown ✓ Density (20°C) [g/cm³]: 1.01 ✓ Base oil: mineral oil ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 460 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes (CaCO₃) ✓ VKA test (DIN 51350-2) [N]: 5500 ✓ Operating temperature [°C]: -20 to 160 ✓ Designation in accordance with DIN 51502: KP 2 P-20



TUNAP

Lubricating greases



TUNGREASE CP-2/25 – FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



Product description	Advantages	Area of application	Technical data
H1 high-performance grease, particularly for low-temperature and high-speed Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 1 kg can 25 kg hobbock	✓ High load-bearing capacity ensures optimum wear protection, thereby extending the service life of the components ✓ Exceptional water resistance and high corrosion protection ensure reliable lubrication even in the presence of water or in outdoor applications ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Oxidation- and shear-stable for a long shelf life	✓ Specialised grease for a wide range of operating conditions in the food processing industry ✓ For heavily loaded rolling bearings, high-speed rolling and plain bearings, joints and other sliding pairs in machinery and plant, e.g. in filling stations, autoclaves, deflection wheels, fans, furnaces, as well as linear guides and drives ✓ Also suitable for applications outside the food industry	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.94 ✓ Base oil: PAO ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 25 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 4600 ✓ Operating temperature [°C]: -50 to 120 ✓ Designation in accordance with DIN 51502: KP HC 2 K-50

TUNGREASE CP-2/50 – FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



Product description	Advantages	Area of application	Technical data
A dynamic, lightweight, fully synthetic H1 high-performance grease offering excellent protection against wear and corrosion Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 400 g spray can 400 g cartridge 1 kg can 25 kg hobbock 175 kg barrel	✓ High load-bearing capacity ensures optimum wear protection, thereby extending the service life of the components ✓ Exceptional water resistance and high corrosion protection ensure reliable lubrication even in the presence of water or in outdoor applications ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Oxidation- and shear-stable for a long shelf life	✓ Specialised grease for a wide range of operating conditions in the food, beverage and pharmaceutical industries: ✓ For heavily loaded rolling and plain bearings, joints and other sliding pairs in machinery and plant, e.g. in filling stations, autoclaves, deflection wheels, fans, furnaces, linear guides and drives ✓ Also for applications outside the food industry where water resistance, a wide temperature range and/or high loads are key factors, or where specific regulations require the use of non-critical lubricants	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.94 ✓ Base oil: PAO ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 46 ✓ NLGI grade (DIN 51818): 2, also available in 00, 0, 1 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 4200 ✓ Operating temperature [°C]: -40 to 140 ✓ Designation in accordance with DIN 51502: KP HC 2 N-40

TUNAP

Lubricating greases

TUNGREASE CP 2/200 – FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



Product description	Advantages	Area of application	Technical data
Fully synthetic H1 high-performance grease offering excellent protection against wear and corrosion. Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 1 kg can 25 kg hobbock	✓ Excellent load-bearing capacity for optimum wear protection, ensuring a longer service life for components and machinery ✓ Its exceptional water resistance and excellent corrosion protection ensure reliable lubrication even in adverse conditions or in outdoor applications ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Oxidation- and shear-stable for a long shelf life	✓ Specialised grease for a wide range of operating conditions in the food, beverage and pharmaceutical industries ✓ For loaded rolling and plain bearings, joints and other sliding pairs in machinery and equipment, e.g. in filling stations, autoclaves, deflection wheels, fans, furnaces, linear guides and drives	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.97 ✓ Base oil: PAO ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 3800 ✓ Operating temperature [°C]: -40 to 160 ✓ Designation in accordance with DIN 51502: KP HC 2 N-40

TUNGREASE CP-2/460 – FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



Product description	Advantages	Area of application	Technical data
Fully synthetic H1 high-performance grease offering excellent protection against wear and corrosion. Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 5 kg bucket 180 kg barrel	✓ Excellent load-bearing capacity for optimum wear protection, ensuring a longer service life for components and machinery ✓ Its exceptional water resistance and excellent corrosion protection ensure reliable lubrication even in adverse conditions or in outdoor applications ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Oxidation- and shear-stable for a long shelf life	✓ Specialised grease for a wide range of operating conditions in the food, beverage and pharmaceutical industries: ✓ Loaded rolling and plain bearings, joints and other sliding pairs in machinery and equipment, e.g. in filling stations, autoclaves, deflection wheels, fans, furnaces, linear guides and drives	✓ Colour: beige/brownish ✓ Density (20°C) [g/cm³]: 0.95 ✓ Base oil: PAO ✓ Thickener: calcium sulphonate complex soap ✓ Drop point [°C]: ≥ 270 ✓ Base oil viscosity (40°C) [mm²/s]: 460 ✓ NLGI grade (DIN 51818): 2, also available in NLGI 00 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 3600 ✓ Operating temperature [°C]: -40 to 160 ✓ Designation in accordance with DIN 51502: KP HC 2 N-40

TUNAP

Lubricating greases

Aluminium-based complex greases

TUNGREASE H1/EP-1 150 – FULLY SYNTHETIC H1 MULTI-PURPOSE GREASE



Product description	Advantages	Area of application	Technical data
Fully synthetic H1 multi-purpose grease for the food processing industry Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 400 g cartridge 1 kg can 25 kg hobbock	✓ Good adhesion ✓ Excellent corrosion protection ✓ Reduces friction and wear ✓ High load-bearing capacity ✓ Excellent water resistance ✓ Excellent resistance to oxidation and ageing ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Effective corrosion protection reduces the risk of premature bearing failure	✓ Specially designed for use in areas where there is a risk of direct, technically unavoidable contact with food ✓ For the lubrication of plain and roller bearings, lifting cylinders, joints, guide rods, cams, etc. ✓ Suitable for use even under difficult conditions (extreme temperatures, heavy loads, shock and impact, and exposure to water)	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: PAO ✓ Thickener: aluminium complex ✓ Drop point [°C]: ≥ 240 ✓ Base oil viscosity (40°C) [mm²/s]: 150 ✓ NLGI grade (DIN 51818): 1 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 2200 ✓ Operating temperature [°C]: -40 to 130 ✓ Designation in accordance with DIN 51502: KP HC 1 M-40

TUNGREASE H1/EP-2 – FULLY SYNTHETIC H1 MULTI-PURPOSE GREASE

Product description	Advantages	Area of application	Technical data
Fully synthetic H1 multi-purpose grease for the food processing industry Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 400 g cartridge 1 kg can 25 kg hobbock	✓ Good adhesion ✓ Excellent corrosion protection ✓ Reduces friction and wear ✓ High load-bearing capacity ✓ Excellent water resistance ✓ Excellent resistance to oxidation and ageing ✓ A versatile, high-performance grease designed to help reduce the number of product variants in the food, beverage and pharmaceutical industries ✓ Effective corrosion protection reduces the risk of premature bearing failure	✓ Specially designed for use in areas where there is a risk of direct, technically unavoidable contact with food ✓ For the lubrication of plain and roller bearings, lifting cylinders, joints, guide rods, cams, etc. ✓ Suitable for use even under difficult conditions (extreme temperatures, heavy loads, shock and impact, and exposure to water)	✓ Colour: beige/yellowish ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: PAO ✓ Thickener: aluminium complex ✓ Drop point [°C]: ≥ 240 ✓ Base oil viscosity (40°C) [mm²/s]: 350 ✓ NLGI grade (DIN 51818): 2, also available in 00 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 2600 ✓ Operating temperature [°C]: -35 to 140 ✓ Designation in accordance with DIN 51502: KP HC 2 M-40

TUNAP

Lubricating greases

Lithium greases

TUNGREASE EP-2 – LITHIUM SOAP GREASE

Product description	Advantages	Area of application	Technical data
Multi-purpose EP lithium soap grease Recommended cleaner: TUNCLEAN 895 915 Packaging: 400 g cartridge 1 kg can 25 kg hobbock	✓ Good pressure absorption ✓ High shear stability ✓ High adhesion and therefore stability ✓ A versatile EP grease designed to help reduce the number of grease types used ✓ Effective corrosion protection reduces the risk of premature bearing failure	✓ For the lubrication of heavily loaded plain, roller and ball bearings, guides and joints ✓ Applications subject to shock and vibration in industry, transport and agriculture	✓ Colour: yellow ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: mineral oil ✓ Thickener: lithium ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 2600 ✓ Operating temperature [°C]: -30 to 120 ✓ Designation in accordance with DIN 51502: KP 2 K-30

TUNGREASE LMO-2/40 –

HIGH PERFORMANCE GREASE WITH MICRO FLOW SURFACE SMOOTHENING

Product description	Advantages	Area of application	Technical data
High-performance grease for reducing friction and providing long-lasting lubrication. Recommended cleaner: TUNCLEAN 895 915 Packaging: 390 g cartridge 900 g can 20 kg hobbock 175 kg barrel	✓ Lubrication under increased loads ✓ Proven long-term and lifetime lubrication ✓ Reduces friction and wear ✓ Improved inlet ✓ Reduces corrosion ✓ Stable to oxidation and shear	✓ For the lubrication of roller and plain bearings, heavily loaded small gearboxes, guides and joints, even under high loads for stable long-term lubrication ✓ Used in almost all sectors to improve operational safety and extend bearing service life	✓ Colour: red ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: semi-synthetic ✓ Thickener: Special lithium soap ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 40 ✓ NLGI grade (DIN 51818): 2, also available in NLGI 1 ✓ Solid lubricant: no ✓ VKA test (DIN 51350-2) [N]: 4800 ✓ Operating temperature [°C]: -30 to 140 ✓ Designation in accordance with DIN 51502: KP 2 N-30



TUNAP

Lubricating greases

TUNGREASE LN-2/100 – SPECIAL LITHIUM GREASE

Product description	Advantages	Area of application	Technical data
Dynamically light lithium special grease for long-term lubrication Recommended cleaner: TUNCLEAN 895 915 Packaging: 25 kg hobbock	✓ Protects rolling bearings against fatigue damage, particularly white etching cracks (WEC), and wear ✓ Good water resistance ✓ Extremely wide temperature range ✓ Excellent start-up performance at low temperatures, resulting in reduced peak currents and noise levels ✓ Synthetic base oils provide excellent high-temperature resistance and allow for extended relubrication intervals and even lifetime lubrication	✓ Lubrication of high-speed rolling bearings, such as those found in tension rollers, fans, electric motors, etc.	✓ Colour range: yellowish ✓ Density (20°C) [g/cm³]: 0.9 ✓ Base oil: synthetic ✓ Thickener: Special lithium soap ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 100 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -40 to 160 ✓ Designation in accordance with DIN 51502: KP HC 2 P-40

TUNGREASE LP-1 – FULLY SYNTHETIC SPECIAL GREASE

Product description	Advantages	Area of application	Technical data
Fully synthetic, smooth-running special-purpose grease for low-temperature applications Recommended cleaner: TUNCLEAN 895 915 Packaging: 900 g can 20 kg hobbock	✓ Excellent corrosion protection ✓ Damping properties ✓ Good compatibility with ABS, PC and POM ✓ Low starting and running torques, particularly at low temperatures, for improved efficiency and energy savings ✓ Oxidation- and shear-stable for a long shelf life ✓ A wide operating temperature range and excellent compatibility with common plastics enable a wide range of applications in electrical and electronic components and small motors	✓ For the lifetime lubrication of electrical/electronic components, particularly those coated with brass, copper, tin, nickel, silver and gold, e.g. power switches, printed circuit boards and potentiometers in electrical/electronic components used in the automotive industry ✓ TUNGREASE LP-1 is also suitable for lubricating moving plastic contact mechanisms ✓ For the lubrication of rolling bearings, particularly at very low temperatures	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.82 ✓ Base oil: PAO ✓ Thickener: Special lithium soap ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 30 ✓ NLGI grade (DIN 51818): 1 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -40 to 130 ✓ Designation in accordance with DIN 51502: KP HC 1 N-40

TUNAP

Lubricating greases

TUNGREASE LP-1 LT – FULLY SYNTHETIC SPECIAL GREASE

Product description	Advantages	Area of application	Technical data
Fully synthetic H2 contact grease for exceptional smoothness even at low temperatures Recommended cleaner: TUNCLEAN 895 915 Packaging: 900 g can 60 kg hobbock	✓ Reliable surface protection and excellent corrosion protection ✓ Exceptional oxidation resistance as the basis for improvements in long-term lubrication ✓ Excellent compatibility with common plastics for a wide range of applications in electronics and drive systems ✓ Designed to meet extremely high standards for low-temperature performance ✓ Excellent oxidation stability due to fully synthetic base oils	✓ For lifetime lubrication of precision electrical and electronic mechanisms coated with brass, copper, tin, nickel, silver and gold, e.g. power switches, printed circuit boards and potentiometers in electrical and electronic components for the automotive industry ✓ For the lubrication of moving plastic contact mechanisms ✓ For the lubrication of roller bearings and guides, particularly at very low temperatures	✓ Colour: light beige ✓ Density (20°C) [g/cm³]: 0.81 ✓ Base oil: PAO ✓ Thickener: Special lithium soap ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 30 ✓ NLGI grade (DIN 51818): 1 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -50 to 130 ✓ Designation in accordance with DIN 51502: KP HC 1 N-50

TUNGREASE LP-2/D6 – FULLY SYNTHETIC SPECIAL GREASE

Product description	Advantages	Area of application	Technical data
Special synthetic grease designed to extend the service life of components across a wide temperature range Recommended cleaner: TUNCLEAN 895 915 Packaging: 1 kg can 170 kg barrel	✓ Excellent damping and noise-reduction properties due to high base oil viscosity and solid lubricant additives ✓ Protection against wear and corrosion for reliable long-term lubrication ✓ Good adhesive properties ✓ Prevents the formation of metal oxides ✓ Good compatibility with common plastics	✓ Developed for the long-term lubrication of components such as plain bearings, roller bearings, small gearboxes and linear guides. ✓ For the lubrication of friction contacts with plastics ✓ Tests show good compatibility with ABS, PC and POM. Typical applications involve low to medium loads and must function easily and smooth	✓ Colour: white ✓ Density (20°C) [g/cm³]: 0.82 ✓ Base oil: PAO ✓ Thickener: Special lithium soap ✓ Drop point [°C]: ≥ 190 ✓ Base oil viscosity (40°C) [mm²/s]: 600 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 2800 ✓ Operating temperature [°C]: -50 to 150 ✓ Designation in accordance with DIN 51502: KP HC 2 N-40

TUNAP

Lubricating greases

PTFE greases

TUNGREASE 250 – HIGH-TEMPERATURE GREASE

Product description	Advantages	Area of application	Technical data
Synthetic High-performance synthetic grease with organic thickener and OMC ₂ technology Recommended cleaner: TUNCLEAN 895 915 Packaging: 400 g cartridge 1 kg can 20 kg hobbock	✓ Featuring OMC ₂ technology ✓ Excellent corrosion protection ✓ Excellent temperature resistance ✓ Particularly when it comes to steel-on-steel material combinations ✓ High load-bearing capacity extends service life and provides optimum wear protection ✓ An extremely low coefficient of friction helps to save energy and ensures smooth running even under extreme pressure, vibration and shock loads, as well as in heavily loaded rolling and plain bearings ✓ Reliable long-term and lifetime lubrication	✓ For long-term lubrication in high-temperature applications of rolling and plain bearings ✓ Typical applications: Conveyor systems, fans, dryers, motors, pumps, calenders and compressors, e.g. in paint shops, film stretching lines, extraction plants, textile machinery, in corrugated board production such as calender rolls, or in chemical plants ✓ In addition, in the fields of plant and equipment engineering and precision engineering	✓ Colour: white ✓ Density (20°C) [g/cm ³]: 0.95 ✓ Base oil: Esters ✓ Thickener: PTFE ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm ² /s]: 200 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 6000 ✓ Operating temperature [°C]: -30 to 200

TUNGREASE 300 – HIGH-TEMPERATURE GREASE

Product description	Advantages	Area of application	Technical data
Chemically inert H1 special grease for long-term lubrication at high temperatures Recommended cleaner: TUNCLEAN 700 Packaging: 800 g cartridge 1 kg can 10 kg bucket 18 kg hobbock	✓ Exceptionally high thermal and oxidative stability, combined with extremely low evaporation loss, enables extended relubrication intervals ✓ Ideal for applications involving aggressive media due to its exceptional chemical resistance ✓ Good compatibility with common plastics and elastomers ✓ Non-flammable	✓ For long-term lubrication in high-temperature applications involving rolling and plain bearings and other lubrication points subject to extreme temperatures ✓ For long-term and lifetime lubrication in harsh environments ✓ For the lubrication of oxygen fittings ✓ Typical applications: paint shops, fans, calenders, oven trolleys, film stretching lines, extraction systems, textile machinery, chemical plants, bleaching works, dye works, electroplating plants, acid plants, the paper and food industries	✓ Colour: white ✓ Density (20°C) [g/cm ³]: 1.9 ✓ Base oil: PFPE ✓ Thickener: PTFE ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm ² /s]: 500 ✓ NLGI grade (DIN 51818): 2, also available in 000, 00, 1 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 3800 ✓ Operating temperature [°C]: -40 to 250



TUNAP

Lubricating greases



TUNGREASE 400 – HIGH-TEMPERATURE GREASE

Product description	Advantages	Area of application	Technical data
A chemically inert special-purpose grease for Long-term lubrication at very high temperatures Recommended cleaner: TUNCLEAN 700 Packaging: 100 g tube 1 kg can	✓ Exceptionally high thermal stability with extremely low evaporation loss for extended relubrication intervals ✓ Ideal for applications involving aggressive media due to its exceptional chemical resistance ✓ Good compatibility with common plastics and elastomers ✓ Exceptionally high resistance to chemicals and water ✓ Non-flammable ✓ Low coefficient of friction ✓ Very high load-bearing capacity ✓ Excellent thermal and oxidative stability	✓ For long-term lubrication in high-temperature applications involving rolling and plain bearings and other lubrication points subject to extreme temperatures ✓ Suitable for long-term and lifetime lubrication in harsh environments ✓ Typical applications: paint shops, fans, calenders, oven trolleys, film stretching lines, extraction systems, textile machinery, chemical plants, bleaching works, dye works, electroplating plants, acid plants, the paper and food industries	✓ Colour: white ✓ Density (20°C) [g/cm ³]: 2.1 ✓ Base oil: PFPE ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm ² /s]: 500 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 6000 ✓ Operating temperature [°C]: -40 to 300

TUNGREASE ST-3 – H1 CHEMICAL INERT SPECIAL GREASE

Product description	Advantages	Area of application	Technical data
Fully synthetic H1 silicone grease for long-term lubrication of fittings Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 1 kg can 25 kg hobbock	✓ Fully synthetic H1 silicone grease for the long-term lubrication of plastic, metal and ceramic fittings, as well as seals, e.g. made of NBR, EPDM and FKM with a high PTFE content ✓ Approved for drinking water fittings by KTW, WRAS and ACS, and compliant with NSF 61 ✓ High thermal stability ✓ Excellent sealing performance ✓ Good resistance to a wide range of substances, such as water, steam, and disinfectants and cleaning agents	✓ Specially formulated valve and seal grease for the food processing industry, designed for lubricating ceramic washers and moving parts in the valve and domestic water supply industry, such as single-lever mixer taps, thermostatic valves, shower switches and shower heads, swivel spouts, etc. ✓ In particular for the lubrication of plastic/plastic, plastic/metal, plastic/ceramic and ceramic/ceramic material combinations	✓ Colour: white ✓ Density (20°C) [g/cm ³]: 1.2 ✓ Base oil: silicone oil ✓ Thickener: PTFE ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm ² /s]: 750 ✓ NLGI grade (DIN 51818): 3 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: - ✓ Operating temperature [°C]: -50 to 180



TUNAP

Lubricating greases

Bentonite greases

TUNGREASE BE-2/220 – SPECIAL GREASE FOR ELASTOMER AND PLASTIC MATERIALS

Product description	Advantages	Area of application	Technical data
Special grease for lubricating sliding contacts in conjunction with elastomer materials Recommended cleaner: TUNCLEAN 895 915 Packaging: 25 kg hobbock	✓ Selected ester oils combined with an inorganic thickener ✓ Excellent compatibility with typical elastomer materials, such as NBR, EPDM, FKM and silicone ✓ Reduces friction and improves smoothness ✓ Enables a reduction in the variety of lubricants used, thereby simplifying manufacturing processes	✓ Lubrication of all mechanically stressed friction points with EPDM and/or NBR elastomers, on shut-off and control valves, on shower and radiator fittings, and generally for sealing lubrication in all areas where a grease compatible with EPDM, NBR, FKM or silicone is required	✓ Colour: light brown ✓ Density (20°C) [g/cm³]: 0.99 ✓ Base oil: Esters ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 220 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -20 to 140

TUNGREASE BS – SPECIAL GREASE FOR LUBRICATION THE MATERIAL PAIRING NON-FERROUS METAL/STEEL

Product description	Advantages	Area of application	Technical data
Synthetic grease with inorganic gel thickener and OMC ₂ technology Recommended cleaner: TUNCLEAN 895 915 Packaging: 1 kg can	✓ Featuring OMC₂ technology ✓ Specifically designed for the non-ferrous metal/steel material combination ✓ Extremely high adhesion and therefore extremely high retention ✓ Optimal wear protection and extended component life thanks to high load-bearing capacity ✓ Energy savings thanks to extremely low coefficients of friction ✓ Ensures smooth running even under extreme pressure, vibration and shock loads ✓ Enables self-lubrication in all bronze materials	✓ For the lubrication of plain and roller bearings, splined shafts, universal joints and cross joints, spindles, guides, cams, conveyor chains and gears ✓ Specifically designed for trapezoidal threaded spindles on scissor lift tables	✓ Colour range: greenish ✓ Density (20°C) [g/cm³]: 0.92 ✓ Base oil: synthetic ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 2000 ✓ NLGI grade (DIN 51818): 1 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -20 to 140

TUNAP

Lubricating greases

Inorganic thickened greases

TUNGREASE BA – H1-HIGH TEMPERATURE GREASE

Product description	Advantages	Area of application	Technical data
Chemically inert H1 special grease for lubrication at extremely high temperaturesRecommended Recommended cleaner: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 1 kg can 30 kg hobbock	✓ Good compatibility with common plastics and elastomers ✓ An extremely low evaporation rate ensures optimum lubrication in furnace systems, even at temperatures exceeding +300°C ✓ Exceptionally high thermal stability combined with extremely low evaporation loss allows for extended relubrication intervals ✓ High chemical resistance to aggressive media or oxidative influences means it can also be used in adverse environmental conditions	✓ Specifically designed for the lubrication of slide guides and rollers in furnace systems ✓ For lifetime lubrication in harsh environments ✓ For rolling and plain bearings operating at low speeds, e.g. in dryers, electric motors and fans, as well as joints and other sliding surfaces	✓ Colour range: white, pink ✓ Density (20°C) [g/cm³]: 1.9 ✓ Base oil: PFPE ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 1000 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: yes ✓ VKA test (DIN 51350-2) [N]: 6500 ✓ Operating temperature [°C]: -20 to 350

TUNGREASE DAB – H1 MULTI-PURPOSE GREASE

Product description	Advantages	Area of application	Technical data
White-based H1 multi-purpose grease with a multifunctional additive package for the food industry Recommended cleaner: TUNCLEAN 700 915 Packaging: 400 g cartridge 1 kg can 25 kg hobbock	✓ Physiologically safe, water-clear paraffin oil ✓ Completely tasteless and odourless ✓ Good resistance to oxidation and ageing ✓ Excellent corrosion protection ✓ Suitable as a base ingredient for cosmetic products ✓ A versatile, multi-purpose white oil-based grease for the food, beverage and pharmaceutical industries ✓ Cleans, nourishes and protects all at once ✓ Reduces friction and wear ✓ Cost-effective to use	✓ Lubrication and maintenance of seals, joints, chains and all moving parts where there is a risk of direct contact between the lubricant and food. ✓ Suitable for all oil lubrication points on machinery in the food industry (including filling machines, packaging machines, capping machines, chains and conveyors, gearboxes, plain bearings, joints, pistons, guides, pipe runs, roller bearings, as a release and lubricant, for stainless steel maintenance in breweries, bakeries, meat processing plants, commercial kitchens and hospitals, and as corrosion protection throughout the food industry)	✓ Colour space: colourless ✓ Density (20°C) [g/cm³]: 0.9 ✓ Base oil: medicinal white oil ✓ Thickener: inorganic ✓ Drop point [°C]: not specified ✓ Base oil viscosity (40°C) [mm²/s]: 120 ✓ NLGI grade (DIN 51818): 2 ✓ Solid lubricant: no ✓ Operating temperature [°C]: -20 to 120 ✓ Classification according to DIN 51502: K 2 K-30

TUNSIL A1 – FULLY SYNTHETIC SILICONE GREASE

Future-proof technology calcium sulphonate: greases for the highest requirements in the H1-area



LUBRICATING OILS

Premium base oils and
high-performance additives
engineered to meet every challenge



TUNAP Lubricating oils

Multi-purpose oils

TUNFLUID DAB

Product description	Advantages	Area of application	Technical data
H1 multi-purpose oil, also suitable for the food processing, beverage and pharmaceutical industries. Recommended cleaners: TUNCLEAN 700 TUNCLEAN FDB 915 Packaging: 500 ml spray can 20 l canister 200 l barrel	✓ A versatile and high-performance multifunctional oil, ideal for reducing the number of varieties ✓ Effective corrosion protection for a long service life ✓ Good resistance to oxidation and ageing ✓ Cleans, nourishes and protects all at once ✓ Reduces friction and wear ✓ Very economical to use ✓ Particularly suitable for stainless steel care	✓ Lubrication and maintenance of seals, joints, chains and all moving parts ✓ Suitable for all oil-lubricated parts on machinery used in the food industry, filling machines, packaging machines, capping machines, chains and conveyor systems, gearboxes, plain bearings, joints, pistons, guides, pipe runs and roller bearings ✓ As a release agent and lubricant ✓ For stainless steel care in breweries, bakeries, meat processing plants, commercial kitchens and hospitals	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.87 ✓ Base oil: medicinal white oil ✓ Flash point [°C]: ≥ 240 ✓ Pour point [°C]: ≤ -10 ✓ Operating temperature [°C]: -5 to 100 ✓ Viscosity (40°C) [mm²/s]: 68 ✓ Viscosity index: ≥ 95

TUNFORM PO – WATER MISCIBLE LUBRICANT AND ANTI-FRICTION AGENT

Product description	Advantages	Area of application	Technical data
Specialised oil for plastics to protect against wear, ageing, static build-up and UV exposure. Recommended cleaner: TUNCLEAN FDB TUNCLEAN 700 915 Packaging: 20 l canister	✓ Reduces friction and wear between plastic surfaces ✓ Prevents slipping ✓ Protection against static electricity ✓ Reduces the effects of UV radiation and premature embrittlement ✓ Protects against mechanical damage	- As a universal lubricant and anti-seize compound for plastics: ✓ Lubrication of moving plastic parts, for plastic-to-plastic and plastic-to-metal material combinations ✓ Designed for coating preforms to achieve significantly higher packing density ✓ Prevention of mechanical damage during transport ✓ Protection against premature ageing and UV exposure ✓ Lubricants and release agents used in the manufacture of containers for the food, beverage, cosmetics and	✓ Colour range: yellowish ✓ Density (20°C) [g/cm³]: 1.01 ✓ Base oil: Special oil ✓ Flash point [°C]: ≥ 200 ✓ Pour point [°C]: ≤ -30 ✓ Operating temperature [°C]: -30 to 120 ✓ Viscosity (40°C) [mm²/s]: 49

TUNAP

Lubricating oils

Chain oils

TUNFLUID HT 200 – HIGH-PERFORMANCE CHAIN OIL

Product description	Advantages	Area of application	Technical data
Synthetic high-temperature oil for chain lubrication featuring OMC ₂ technology Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister 200 l barrel	✓ Excellent wear protection for reliable chain operation ✓ Increased energy efficiency and reduced operating temperatures thanks to special TUNAP OMC₂ additive technology designed to reduce friction ✓ Excellent penetration and adhesion ✓ Extremely low evaporation residue ✓ Economical to use thanks to high thermal stability and extremely low steam loss ✓ Does not become sticky or form a residue ✓ High flash point	✓ Chain lubrication in high-temperature applications ✓ Stretching and drying frames in the textile industry ✓ Conveyor chains in drying and painting systems	✓ Colour range: green, clear ✓ Density (20°C) [g/cm³]: 0.92 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 240 ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -20 to 240 ✓ Viscosity (40°C) [mm²/s]: 200 ✓ Viscosity index: ≥ 90

TUNFLUID HT 2200 – SYNTHETIC HIGH-TEMPERATURE ADHESIVE OIL

Product description	Advantages	Area of application	Technical data
Synthetic high-temperature adhesive oil for chain lubrication featuring OMC ₂ technology Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister 200 l barrel	✓ Highly adhesive to prevent contamination from splashing and dripping ✓ Improved energy efficiency and reduced operating temperatures thanks to the special TUNAP OMC₂ additive technology, which reduces friction ✓ Economical to use thanks to high thermal stability and extremely low steam loss ✓ Extremely low evaporation residue ✓ Excellent wear protection for reliable chain operation ✓ Reliable corrosion protection	✓ Chain lubrication in normal and high-temperature applications up to approx. +220°C: ✓ Stretching and drying frames in the textile industry ✓ Drive and conveyor chains in the chemical industry, in paint shops, and in the wood and plastics processing sectors ✓ Chains in shrink, baking, vulcanising and drying ovens ✓ Chains, ropes, spindles and gears in wet areas ✓ Laundry and drying facilities ✓ Sewage treatment plants, port, lock and shipyard facilities	✓ Colour: reddish, clear ✓ Density (20°C) [g/cm³]: 0.93 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -10 ✓ Operating temperature [°C]: 0 to 220 ✓ Viscosity (40°C) [mm²/s]: 4100 ✓ Viscosity index: 200

TUNAP

Lubricating oils



TUNFLUID HTC 260 – SYNTHETIC HIGH-TEMPERATURE OIL

Product description	Advantages	Area of application	Technical data
Synthetic high-temperature oil for chain lubrication with a low evaporation rate. Recommended cleaner: TUNCLEAN 700 915 Packaging: 20 l canister 200 l barrel	✓ Excellent flow properties ✓ Very economical to use thanks to high thermal stability and extremely low evaporation loss ✓ Clean to use, as no varnish-like residues form even at high operating temperatures ✓ Excellent wear protection for reliable chain operation ✓ Very high load-bearing capacity	✓ Drive, control and conveyor chains for high-temperature applications, e.g. in the field of surface treatment, drying or coating of various industrial goods ✓ Transport systems for automotive suppliers, metalworking, and the coating of household goods or packaging materials ✓ Conveyor chains in dryers, e.g. in the manufacture of gypsum or mineral wool	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.9 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 250 ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -25 to 250 ✓ Viscosity (40°C) [mm²/s]: 260 ✓ Viscosity index: ≥ 130

TUNFLUID HTFG 260 – SYNTHETIC HIGH-TEMPERATURE OIL



Product description	Advantages	Area of application	Technical data
NSF H1 synthetic high-temperature oil for chain lubrication for the food processing industry, beverages and pharmaceutical industry Recommended cleaner: TUNCLEAN 700 915 Packaging: 20 l canister 200 l barrel	✓ Extremely heat-resistant ✓ Very clean to use, particularly at very high temperatures due to minimal residue formation ✓ Excellent wear protection for reliable chain operation ✓ Particularly resistant to UV radiation ✓ Excellent flow properties ✓ Exceptionally economical consumption thanks to high thermal stability and extremely low steam loss ✓ Very high load-bearing capacity	✓ Drive, control and conveyor chains for high-temperature applications, e.g. in baking lines and vending machines ✓ In the field of surface treatment, drying or coating of various industrial goods or packaging materials that are subject to the highest hygiene standards	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.97 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 270 ✓ Pour point [°C]: ≤ -15 ✓ Operating temperature [°C]: -10 to 250 ✓ Viscosity (40°C) [mm²/s]: 260 ✓ Viscosity index: ≥ 95

Viscosity: also available in 100

TUNAP

Lubricating oils

TUNFLUID LT 220 – SYNTHETIC CHAIN OIL

Product description	Advantages	Area of application	Technical data
Synthetic low-temperature oil for chain lubrication featuring OMC ₂ technology. Recommended cleaner: TUNCLEAN 895 915 Packaging: 400 ml spray can 20 l canister 1000 l IBC	✓ Excellent wear protection for reliable chain operation ✓ Versatile thanks to a wide temperature range and high thermal stability ✓ Increases energy efficiency and reduces operating temperatures thanks to special OMC₂ additive technology designed to reduce friction ✓ Excellent creep behaviour and good adhesion ✓ Excellent corrosion protection	✓ Chain lubrication for tensioning and drying frames in the textile industry ✓ Drive and conveyor chains in the chemical industry, in paint shops, and in the wood and plastics processing sectors ✓ Chains in baking and drying ovens ✓ In the glass, ceramics, enamel and metalworking industries ✓ Ropes, spindles, gears, cylinders and other drive units ✓ For heavy-duty applications, for long-term lubrication at high and extremely low temperatures	✓ Colour: dark brown ✓ Density (20°C) [g/cm³]: 0.93 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -30 ✓ Operating temperature [°C]: -30 to 200 ✓ Viscosity (40°C) [mm²/s]: 220 ✓ Viscosity index: ≥ 130

Gear oils

TUNGEAR SERIES – HIGH-PERFORMANCE GEAR OIL

Product description	Advantages	Area of application	Technical data
High-performance mineral oil-based gear oils with OMC ₂ technology for reliable long-term lubrication Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister 200 l barrel	✓ Reliable operation thanks to high resistance to galling (LS ≥ 14) and micro-pitting (GFT-medium) ✓ Improving energy efficiency and reducing operating temperatures ✓ Extended component service life thanks to exceptionally high wear protection ✓ Smoothing or prevention of pitting and other gearbox damage through the special OMC₂ technology ✓ Excellent corrosion protection	✓ For all types of industrial gearboxes under heavy loads and for long-term lubrication ✓ In gearboxes with a high proportion of sliding contact, high surface pressure and under shock loads ✓ Straight-toothed, helical and spur gears, hypoid gears, worm gears, chain drives, variable-speed drives, clutches, roller and plain bearings ✓ Gearboxes for extruders, mills, cement plants, lifts and other drive units	✓ Colour range: green, brown ✓ Density (20°C) [g/cm³]: 0.9 ✓ Base oil: mineral oil ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -21 ✓ Operating temperature [°C]: -20 to 120 ✓ Viscosity (40°C) [mm²/s]: 220, 320, 460 ✓ Viscosity index: 100

TUNAP

Lubricating oils

TUNGEAR H1 SERIES – FULLY SYNTHETIC GEAR OILS

Product description	Advantages	Area of application	Technical data
Fully synthetic gear oil with H1 approval for the food processing industry Recommended cleaner: TUNCLEAN FDB 915 Packaging: 20 l canister 200 l barrel	✓ Extended oil change intervals due to the superior thermal stability of synthetic base oils compared to mineral-based gear oils ✓ Gear oils in the TUNGEAR H1 range are based on synthetic oils with high lubricating performance, enhanced with wear, oxidation and corrosion inhibitors ✓ Reliable operation thanks to high resistance to galling (LS ≥ 12) and micro-pitting	✓ Food production and processing industry: gearboxes, particularly under extreme conditions such as high or low temperatures, high sliding contact, high surface pressure and impact loads ✓ Bakeries, bread factories, dairies, abattoirs, meat processing plants, livestock farms, the drinks and packaging industries ✓ Sliding and rolling bearings, spindles, guides, cams, universal joints	✓ Colour: colourless, pale yellow ✓ Density (20°C) [g/cm³]: 0.85 ✓ Base oil: PAO ✓ Flash point [°C]: ≥ 250 ✓ Pour point [°C]: ≤ -40 ✓ Operating temperature [°C]: -40 to 140 ✓ Viscosity (40°C) [mm²/s]: 220, 320, 460 ✓ Viscosity index: ≥ 140

TUNGEAR CGLP 220 – FULLY SYNTHETIC GEAR OIL

Product description	Advantages	Area of application	Technical data
H1 fully synthetic gear and slideway oil with anti-seize additives Compatible cleaners: TUNCLEAN FDB TUNCLEAN 700 915 Packaging: 20 l canister	✓ Excellent adhesion ✓ Reduction of friction and wear ✓ High pressure absorption capacity ✓ Corrosion-resistant, resistant to ageing and shear ✓ Reduces running noise and vibrations	✓ Bed rails and sliding rails ✓ Gearboxes, particularly under extreme conditions such as high or low temperatures, high sliding contact, high surface pressure and impact loads ✓ Sliding and rolling bearings, spindles, guides, cams, universal joints ✓ including bakeries, bread factories, dairies, abattoirs, meat processing plants, livestock farms, and the drinks and packaging industries	✓ Colour: colourless, pale yellow ✓ Density (20°C) [g/cm³]: 0.85 ✓ Base oil: PAO ✓ Flash point [°C]: ≥ 250 ✓ Pour point [°C]: ≤ -40 ✓ Operating temperature [°C]: -30 to 140 ✓ Viscosity (40°C) [mm²/s]: 220 ✓ Viscosity index: 140

TUNAP

Lubricating oils

TUNGEAR CLP SERIES – MULTI-PURPOSE GEAR OIL

Product description	Advantages	Area of application	Technical data
Mineral oil-based multi-purpose gear oil Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister 200 l barrel	✓ Extended component service life thanks to exceptionally high wear resistance ✓ Excellent corrosion protection ✓ Prevention of pitting and other gearbox damage	✓ For all types of industrial gearboxes ✓ For low to medium-load straight, helical and spur gears, chain drives, variable-speed drives, clutches, roller bearings and plain bearings ✓ Gearboxes for extruders, mills, cement plants, lifts and other drive units	✓ Colour range: green, brown ✓ Density (20°C) [g/cm³]: 0.89 ✓ Base oil: mineral oil ✓ Flash point [°C]: ≥ 210 ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -20 to 100 ✓ Viscosity (40°C) [mm²/s]: 68, 100, 150, 220, 320, 460 ✓ Viscosity index: ≥ 95

Compressor oils

TUNAIR 100 – FULLY SYNTHETIC COMPRESSOR OIL

Product description	Advantages	Area of application	Technical data
Fully synthetic compressor oil for trouble-free, long-term operation. Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister	✓ For reliable operation thanks to excellent wear protection ✓ For trouble-free operation at high temperatures ✓ Reliable long-term operation with reduced oil change and maintenance intervals ✓ Reduced oil mist and oil consumption ✓ Excellent chemical resistance, even at high temperatures	✓ Compressors and vacuum pumps of various types ✓ Rotary, screw and piston compressors for air and most industrial gases	✓ Colour: yellowish, transparent ✓ Density (20°C) [g/cm³]: 0.93 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 240 ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -20 to 140 ✓ Viscosity (40°C) [mm²/s]: 100 ✓ Viscosity index: ≥ 140

TUNAP

Lubricating oils

TUNAIR PAO RANGE – FULLY SYNTHETIC COMPRESSOR OILS

Product description	Advantages	Area of application	Technical data
Fully synthetic H1 compressor oil for trouble-free long-term operation. Recommended cleaner: TUNCLEAN FDB TUNCLEAN 700 915 Packaging: 20 l canister 200 l barrel	✓ Extended oil change intervals due to the superior thermal stability of synthetic base oils compared to mineral-based compressor oils ✓ Good compatibility with elastomers ✓ Good corrosion protection ✓ Reduces operating costs ✓ Long oil change intervals	✓ Areas where food may come into contact, such as screw compressors, vacuum pumps and small gearboxes ✓ Specially designed for use in the food processing industry	✓ Colour: colourless, pale yellow ✓ Density (20°C) [g/cm³]: 0.84 ✓ Base oil: PAO ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -40 ✓ Operating temperature [°C]: -40 to 140 ✓ Viscosity (40°C) [mm²/s]: 32, 46, 68, 100 ✓ Viscosity index: 140

TUNAIR TS 46 – SEMI-SYNTHETIC COMPRESSOR OIL

Product description	Advantages	Area of application	Technical data
Semi-synthetic compressor oil for trouble-free, long-term operation. Recommended cleaner: TUNCLEAN 895 915 Packaging: 20 l canister 200 l barrel	✓ Extended oil change intervals due to the exceptional thermal stability of the base oil blend compared to mineral-based compressor oils ✓ Reliable operation thanks to high wear resistance	✓ For use in screw compressors with oil-injection cooling ✓ Also ideal as a long-life gear oil ✓ For trouble-free long-term operation with extended oil change and maintenance intervals	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.86 ✓ Base oil: semi-synthetic ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -15 ✓ Operating temperature [°C]: -10 to 120 ✓ Viscosity (40°C) [mm²/s]: 46 ✓ Viscosity index: > 110

TUNAP

Lubricating oils

Glass machine oils

TUNFLUID G 100 P – MINERAL LUBRICANT OIL

Product description	Advantages	Area of application	Technical data
Mineral oil-based lubricating oil that leaves very little residue. Recommended cleaner: TUNCLEAN 895 915 Packaging: 208 l barrel	✓ Outstanding residue behaviour for contaminated lubricated contacts ✓ Good resistance to oxidation ✓ Reduces friction and wear ✓ Compatible with the most common elastomers and seals ✓ Ash-free	✓ For central lubrication ✓ For the lubrication of machinery, in particular the plunger mechanism	✓ Colour: brownish ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: mineral oil ✓ Flash point [°C]: ≥ 220 ✓ Pour point [°C]: ≤ -6 ✓ Operating temperature [°C]: -15 to 200 ✓ Viscosity (40°C) [mm²/s]: 100 ✓ Viscosity index: 95

TUNFLUID HTG 200 – SYNTHETIC HIGH-TEMPERATURE OIL

Product description	Advantages	Area of application	Technical data
Synthetic high-temperature oil for glass machinery with NSF H2 registration Recommended cleaner: TUNCLEAN 700 915 Packaging: 200 l barrel 1000 l IBC	✓ Established on IS and AIS machines ✓ Excellent wear protection for reliable machine operation ✓ Minimal residue build-up for improved machine efficiency and lower cleaning costs ✓ Very economical to use thanks to the high thermal stability of the synthetic base and extremely low evaporation loss ✓ Extremely adhesive ✓ Protects against corrosion and the effects of water ✓ Good creep resistance	✓ For lubrication in high-temperature applications, specially developed and proven for use in hollow glass machinery: ✓ For lubrication points in centralised lubrication systems (e.g. Lincoln, etc.) ✓ For the lubrication of machinery and springs in normal and high-temperature conditions ✓ Excellent high-temperature oil for the glass, ceramics, enamel and food industries (not for food contact)	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.88 ✓ Base oil: semi-synthetic ✓ Flash point [°C]: ≥ 200 ✓ Pour point [°C]: ≤ -30 ✓ Operating temperature [°C]: -25 to 250 ✓ Viscosity (40°C) [mm²/s]: 200 ✓ Viscosity index: ≥ 110



TUNAP

Lubricating oils



TUNFLUID HTG 220 – SYNTHETIC HIGH-TEMPERATURE OIL

Product description	Advantages	Area of application	Technical data
H2 synthetic high-temperature oil for the lubrication of IS hollow glass machines. Recommended cleaner: TUNCLEAN 700 915 Packaging: 200 l barrel 1000 l IBC	✓ Established on IS and AIS machines ✓ Excellent wear protection for reliable machine operation ✓ Minimal residue build-up for improved machine efficiency and lower cleaning costs ✓ Very economical to use thanks to the high thermal stability of the synthetic base and extremely low evaporation loss ✓ Extremely adhesive ✓ Protects against corrosion and the effects of water ✓ Good creep resistance	✓ For lubrication in high-temperature applications; specially developed and proven for use in hollow glass machinery ✓ For lubrication points in centralised lubrication systems (e.g. Lincoln, etc.) ✓ For the lubrication of machinery and springs in normal and high-temperature conditions ✓ Excellent high-temperature oil for the glass, ceramics, enamel and food industries (not for food contact)	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.95 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 250 ✓ Pour point [°C]: ≤ -40 ✓ Operating temperature [°C]: -25 to 180 ✓ Viscosity (40°C) [mm²/s]: 220

Cutting oils

TUNCUT B 40 – CUTTING AND PUNCHING OIL WITH EP ADDITIVES

Product description	Advantages	Area of application	Technical data
Cutting and punching oil for the metalworking and electronics industries Recommended cleaner: TUNCLEAN 895 915 Packaging: 200 l barrel	✓ A transparent, natural oil containing high-pressure additives, as well as oxidation and corrosion inhibitors ✓ Extends tool life thanks to excellent lubrication performance ✓ For high-quality finishes ✓ Excellent adhesion ✓ Biodegradable ✓ Exceptional lubricating performance	✓ As a process oil in the metalworking and electronics industries ✓ Cutting oil for drilling, tapping, sawing and turning ✓ Metalworking oil for bending, flanging, folding, deep drawing, forming and punching	✓ Colour: yellowish, clear ✓ Density (20°C) [g/cm³]: 0.93 ✓ Base oil: Esters ✓ Flash point [°C]: ≥ 280 ✓ Pour point [°C]: ≤ -10 ✓ Operating temperature [°C]: -10 to 120 ✓ Viscosity (40°C) [mm²/s]: 35

TUNAP

Lubricating oils



TUNCUT M 22 – CUTTING OIL FOR THE PAPER AND CORRUGATED CARDBOARD INDUSTRY



Product description	Advantages	Area of application	Technical data
Semi-synthetic cutting oil for the paper and corrugated board industry, NSF H2 registered Recommended cleaner: TUNCLEAN 895 915 Packaging: 200 l barrel	✓ Extended service life of cutting edges thanks to excellent corrosion protection and outstanding lubricating properties ✓ Optimised starch and adhesive removal capabilities to ensure consistently clean cutting results ✓ Reduced lubricant consumption due to particularly good thermal and evaporation stability ✓ Very low risk, as it contains few allergens	✓ Specially developed for the lubrication of longitudinal and grooved cuts in the manufacture of corrugated board ✓ Can also be used to remove starch and glue residues and to protect surfaces	✓ Colour space: clear, colourless ✓ Density (20°C) [g/cm³]: 0.84 ✓ Base oil: semi-synthetic ✓ Flash point [°C]: ≥ 280 ✓ Pour point [°C]: ≤ -58 ✓ Operating temperature [°C]: -40 to 200 ✓ Viscosity (40°C) [mm²/s]: 17 ✓ Viscosity index: 120

TUNCUT STF – CUTTING AND PUNCHING OIL



Product description	Advantages	Area of application	Technical data
Low-residue evaporating process oil for the metalworking and electronics industries Recommended cleaner: TUNCLEAN 895 915 Packaging: 200 l barrel	✓ Combination of high-performance additives in rapidly evaporating solvents ✓ Capable of withstanding pressure and highly durable ✓ Reduces friction and wear ✓ Extends tool life	✓ All areas where, following degreasing is to be omitted prior to further surface treatments: Punching and fine punching Drawing and deep drawing Bending, edge folding and forming	✓ Colour: pale yellow, clear ✓ Density (20°C) [g/cm³]: 0.76 ✓ Base oil: a blend of synthetic and mineral oils ✓ Flash point [°C]: > 56 ✓ Pour point [°C]: ≤ -10 ✓ Operating temperature [°C]: -10 to 120 ✓ Viscosity (40°C) [mm²/s]: 5.9

Hydraulic oils

TUNBAR HLP 46 – HYDRAULIC OIL

Product description	Advantages	Area of application	Technical data
Mineral oil-based high-pressure hydraulic oil with OMC₂ technology Recommended cleaner: TUNCLEAN FDB TUNCLEAN 700 915 Packaging: 200 l barrel	✓ Featuring OMC₂ technology ✓ High pressure capacity ✓ Reduction of friction and wear ✓ Good resistance to oxidation and ageing ✓ Good compatibility with elastomers ✓ Excellent corrosion protection ✓ Neutral towards non-ferrous metals ✓ Good air and water separation capacity ✓ Excellent foaming properties	✓ For hydraulic systems of all kinds where the specifications of DIN 51524 Part 2 represent the minimum requirements ✓ In industrial trucks, tippers, tail-lifts, control systems ✓ In lifts, cranes and hoists ✓ For pipe bending, tooling and cutting machines, construction machinery, excavators and bulldozers	✓ Colour: brown ✓ Density (20°C) [g/cm³]: 0.87 ✓ Base oil: mineral oil ✓ Flash point [°C]: ≥ 175 ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -20 to 110 ✓ Viscosity (40°C) [mm²/s]: 32, 46, 68, 100, 150 to 220 ✓ Viscosity index: ≥ 95

Inert and silicone oils

TUNSIL M 350 – CLEAR SILICONE OIL



Product description	Advantages	Area of application	Technical data
Transparent H1 lubricating, release and maintenance oil for a wide temperature range. Recommended cleaner: TUNCLEAN 700 915 Packaging: 5 l canister	✓ Transparent lubricating, release and maintenance oil based on silicone oil ✓ Cares for and protects surfaces ✓ High wetting ability ✓ Low tendency to evaporate ✓ Good resistance to ageing ✓ Good material compatibility (except silicones) ✓ Eliminates squeaking noises	✓ As a lubricant for sliding contacts with metals, plastics and elastomers ✓ For the protection and care of plastic and elastomer materials ✓ As a mould release agent specifically designed for the plastics processing industry	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.97 ✓ Base oil: silicone oil ✓ Flash point [°C]: ≥ 320 ✓ Pour point [°C]: ≤ -50 ✓ Operating temperature [°C]: -50 to 200 ✓ Viscosity (40°C) [mm²/s]: 260

TUNAP

Lubricating oils

Speciality oils

TUNERT FL 460 – FLUOROCARBON SPECIAL OIL

Product description	Advantages	Area of application	Technical data
PFPE special oil for high-temperature and seal lubrication Recommended cleaner: TUNCLEAN 895 TUNCLEAN EL 915 Packaging: 1 l bottle	✓ Extended relubrication intervals due to high thermal stability with extremely low evaporation loss ✓ Ideal for applications involving aggressive media due to its exceptional chemical resistance ✓ Good compatibility with common plastics and elastomers ✓ Completely odourless and tasteless ✓ Also available with a fluorescent dye for quality control	✓ Lubrication and maintenance of seals, joints, chains and all moving parts that place particularly high demands on chemical or thermal resistance	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 1.92 ✓ Base oil: PFPE ✓ Flash point [°C]: - ✓ Pour point [°C]: ≤ -20 ✓ Operating temperature [°C]: -20 to 250 ✓ Viscosity (40°C) [mm²/s]: 490 ✓ Viscosity index: ≥ 140

Lubricant solutions with micro surface flow smoothing effect: OMC₂-technology





Solvent-based cleaner

Product description	Advantages	Area of application	Technical data
Broadband cleaner Packaging: 500 ml spray can 20 l canister 60 l barrel	✓ Removes oil, grease, resin and silicone ✓ Loosens, binds and washes away dust ✓ Ventilate quickly ✓ High spray pressure for optimal cleaning performance, even in hard-to-reach areas ✓ Effective against varnish-like stains ✓ Aprotic – non-polar: oil and grease-based contaminants ✓ Aprotic – polar: adhesive or paint residues ✓ Higher electrical resting conductivity ($> 300 \text{ pS/m}$)	✓ For maintenance, repair and assembly work involving heavily oily and greasy residues ✓ In the case of resin build-up, silicone and salt-like residues	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm^3]: 0.75 ✓ Chemical composition: petrol, low boiling point; acetone, alcohol, CO_2 propellant ✓ Flash point [°C]: > -18 ✓ Evaporation rate: 3.44 ✓ Boiling range [°C]: 56–110

Product description	Advantages	Area of application	Technical data
Cleaner for maintenance, repair and assembly work Packaging: 500 ml spray can 20 l canister 60 l barrel	✓ Removes heavy soiling caused by oil, grease, resin, silicone and anti-corrosion coatings ✓ Binds and washes away abrasive dust ✓ Ventilates quickly ✓ High spray pressure for optimal cleaning performance, even in hard-to-reach areas	✓ For maintenance, repair and assembly work involving oily and greasy residues ✓ For brake maintenance and repairs ✓ When repairing clutches	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.67 ✓ Chemical composition: petrol, low boiling point, propellant CO₂ ✓ Flash point [°C]: -12 ✓ Evaporation coefficient: 1.39 ✓ Boiling range [°C]: 80–110

Highly effective cleaners,
safe for people
and the environment



916 – BRAKE CLEANER+

Product description	Advantages	Area of application	Technical data
NSF K1 acetone-free cleaner for maintenance, repair and assembly in physiologically and ecologically sensitive areas Packaging: 500 ml spray can 20 l canister 60 l barrel	✓ Ensures residue-free cleaning of non-greasy surfaces ✓ Reliably removes oil, grease, resin, silicone and anti-corrosion coatings ✓ Binds and washes away dust generated by grinding ✓ High spray pressure for optimal cleaning performance, even in hard-to-reach areas ✓ Short flash-off time with an evaporation rate of 2.96 ✓ Excellent material compatibility ✓ Formula free from silicone oil, PFAS and microplastics ✓ Acetone-free ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ For the maintenance, repair and assembly all parts and surfaces, particularly brake systems, where stubborn oily and greasy residues are present ✓ For cleaning in areas where health and the environment are of particular concern	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.7 ✓ Chemical composition: Synthetic hydrocarbon, alcohol, propellant CO₂ ✓ Flash point [°C]: -8 ✓ Boiling range [°C]: 78–164

TUNCLEAN 895 – INTENSIVE CLEANER

Product description	Advantages	Area of application	Technical data
Fast-acting degreaser and cleaner with excellent cleaning performance for maintenance, repair and assembly Packaging: 500 ml spray can 5 l canister 20 l canister 60 l barrel	✓ Excellent cleaning performance ✓ Average evaporation rate ✓ Residue-free cleaning for grease-free surfaces and streamlined subsequent processes ✓ Is free from harmful substances such as PCBs, lead, cadmium and other pollutants ✓ Does not contain any chlorinated or halogenated hydrocarbons ✓ Does not contain any carcinogenic hazardous substances, in accordance with the German Regulation on the Classification, Packaging and Labelling of Hazardous Substances (GefStoffV)	✓ For maintenance, repair and assembly in cases of severe greasing and resin build-up ✓ For degreasing and priming parts before bonding and painting ✓ Removes oils and resin build-up, synthetic oil and silicone residues ✓ Ideal for residue-free cleaning ✓ Replaces TRI, PER and cleaning products containing CHCs ✓ As a brake cleaner	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0,755 ✓ Chemical composition: petrol, high-boiling-point alcohol, acetone, CO₂ propellant ✓ Flash point [°C]: -17 ✓ Evaporation rate: 3.9 ✓ Boiling range [°C]: 56–140

TUNCLEAN 700 – CLEANER FOR THE FOOD INDUSTRY

Product description	Advantages	Area of application	Technical data
NSF H1 and K1 registered cleaner for maintenance, repair and assembly Packaging: 20 l canister 200 l barrel	✓ Colourless, does not stain ✓ Good creep resistance ✓ Good compatibility with common plastics ✓ Removes oils, resin build-up and silicone residues ✓ Evaporates without leaving any residue ✓ Slow evaporation for maximum contact time	✓ Cleaning and temporary lubrication in physiologically and ecologically sensitive areas ✓ For maintenance, repair and assembly where there are heavy grease deposits	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.4 ✓ Chemical composition: petrol, higher boiling point, propellant CO₂ ✓ Flash point [°C]: -61 ✓ Evaporation rate: 200 ✓ Boiling range [°C]: 186–214

Safety cleaner

915 – CLEANER +

Product description	Advantages	Area of application	Technical data
NSF K1 Cleaner for maintenance, repair and assembly work for removing dust, encrustations, oil, grease, resin and anti-corrosion coatings Packaging: 500 ml spray can 20 l canister 60 l barrel	✓ Excellent cleaning performance in A1 quality with the lowest hazard level according to TRGS 600 ✓ Lowest risk potential; product recommended in accordance with the Hazardous Substances Ordinance (Protection Level 2) ✓ A spray jet, not a spray mist ✓ Lower explosive limit of > 1.5% by volume, as well as a reduced risk of fire and fire-related consequences ✓ High electrical resistivity of > 1,000 pS/m ✓ Reduced drying time with an evaporation rate of 4.5 ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ For maintenance, repair and assembly for oily and greasy residues and resin build-up ✓ For cleaning paint-like stains ✓ For the maintenance and repair of brakes and clutches	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.7 ✓ Chemical composition: alcohol, acetone, synthetic compounds, hydrocarbons, petrol, higher boiling point, propellant CO₂ ✓ Flash point [°C]: -17 ✓ Evaporation rate: 4.5 ✓ Boiling range [°C]: 56–164

TUNAP Cleaning

TUNCLEAN FDB

Product description	Advantages	Area of application	Technical data
NSF-approved, physiologically safe H1 and K1 registered cleaner for maintenance, repair and assembly	✓ Colourless, transparent, does not stain ✓ Removes oils, resin build-up and silicone residues ✓ Good creep resistance ✓ Good compatibility with common plastics ✓ Evaporates without leaving any residue	✓ Cleaning and temporary lubrication in physiologically sensitive areas ✓ For maintenance, repair and assembly where there are heavy grease deposits	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 0.74 ✓ Chemical composition: petrol, higher boiling point, propellant CO₂ ✓ Flash point [°C]: > 36 ✓ Evaporation rate: 60 ✓ Boiling range [°C]: 145–200
Packaging: 500 ml spray can			



Water-based cleaners

909 – INTERIOR CLEANER +

Product description	Advantages	Area of application	Technical data
NSF A1 multifunctional interior cleaner with high cleaning performance for plastic, glass and textiles	✓ Foam cleaner with special surfactants for a streak-free clean ✓ Effectively removes oil and grease stains ✓ Excellent cleaning power, even on insect stains, thanks to optimised evaporation properties ✓ Excellent material compatibility; the original appearance of plastic surfaces is preserved, e.g. dashboards ✓ No streaks on glass surfaces ✓ Free from harmful fragrance oils ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ For cleaning plastic surfaces and painted plastic surfaces ✓ For cleaning upholstery, glass surfaces and leather ✓ Materials: no restrictions	✓ Colour: colourless, clear ✓ Density (20°C) [g/cm³]: 1.04 ✓ Concentration range (%): n/a ✓ Operating temperature [°C]: Use at room temperature ✓ pH (100%): 6
Packaging: 500 ml spray can			



TUNAP Cleaning

TUNCLEAN 5110 – PROFESSIONAL CLEANER

Product description	Advantages	Area of application	Technical data
Multifunctional, water-based cleaner for vehicles, buildings and machinery	✓ For effective removal of oil, grease, wax and similar contaminants ✓ Removes grease, oil, grime and dirt build-up ✓ Ensures quick and effective cleaning ✓ In most cases, no mechanical processing is required ✓ Easily biodegradable	✓ In all areas where heavy contamination occurs: ✓ Buildings and facilities, production halls, floors and walls, vehicles (interior and exterior), machine tools and processing equipment ✓ Materials: Do not use on light metals or on plastics that are not resistant to alkaline substances, such as polycarbonate, PMMA and PET	✓ Colour: orange ✓ Density (20°C) [g/cm³]: 1.062 ✓ Concentration range (%): 3% to 10% for normal soiling, 20% for stubborn soiling (e.g. engine washing); dosage in high-pressure cleaners up to 0.05% is possible ✓ Operating temperature [°C]: Use at room temperature ✓ pH (2%): 11. 7pH (100%): >13
Packaging: 20 l canister			



TUNCLEAN DFH-4A – COMPONENT CLEANER

Product description	Advantages	Area of application	Technical data
Alkaline immersion and spray cleaner for industrial applications	✓ Demulsifying ✓ Suitable for ferrous materials (steel and iron) ✓ Liquid ✓ Can be sprayed from 30°C ✓ Excellent grease-cutting performance ✓ Suitable for spray and immersion cleaning ✓ Temporary corrosion protection ✓ Water-based	✓ Materials: Do not use on light metals or on plastics that are not resistant to alkaline substances, such as polycarbonate, PMMA and PET	✓ Colour range: yellowish ✓ Density (20°C) [g/cm³]: 1.099 ✓ Concentration range (%): Initial concentration 3 to 5% by volume plus 0.001% defoamer ✓ Operating temperature [°C]: Temperature: from 30 to 60 ✓ pH (2%): 11.9 - pH (100%): > 13
Packaging: 20 l canister			





Product description	Advantages	Area of application	Technical data
Synthetic H1 multi-purpose oil with good wetting properties Packaging: 400 ml spray can 20 l barrel	✓ Colourless, transparent, does not stain ✓ Formulation free from white oil/mineral oil ✓ Corrosion protection for non-ferrous metals ✓ Excellent corrosion protection ✓ Good creep resistance ✓ Good protection against oxidation and ageing ✓ free from n-hexane ✓ Improved protection for workers and users thanks to a high flash point	✓ Lubrication and maintenance of joints, chains, seals and all moving parts ✓ As a release agent ✓ For corrosion protection ✓ Any applications where the use of products containing mineral oil, critical additives and/or critical solvents – which may pose a health risk – is undesirable	✓ Colour space: transparent ✓ Density (20°C) [g/cm³]: 0.8 ✓ Base oil: PAO ✓ Base oil viscosity (40°C) [mm²/s]: 30 ✓ Flash point [°C]: > 61 ✓ Thixotropic: no ✓ Pour point [°C]: -52 ✓ Operating temperature [°C]: -50 to 140



902 – MAINTENANCE OIL +

Product description	Advantages	Area of application	Technical data
Innovative, fully synthetic maintenance oil containing boron nitride for long-term lubrication, with excellent water displacement properties and high wear protection	✓ Excellent wear protection, friction-reducing properties and run-flat capabilities thanks to boron nitride ✓ Compatible with standard seals and painted surfaces ✓ Good penetration ensures deep penetration corrosion protection ✓ Synthetic oil base for long-lasting performance, even at higher temperatures ✓ Colourless, transparent and therefore does not stain	✓ Lubrication and maintenance of joints, chains, seals and all moving parts ✓ Particularly suitable for precision engineering and precision components, e. g. in the electronics sector ✓ Ideal for making tie rods, joints and lock cylinders operational ✓ Particularly well suited for use in vehicle interiors due to the use of fewer ingredients that pose a health risk	✓ Colour: colourless, cloudy ✓ Density (20 °C) [g/cm³]: 0.76 ✓ Base oil: synthetic ✓ Flash point [°C]: -80 ✓ Operating temperature [°C]: -40 to 180
Packaging: 400 ml spray can			

Fat-blocking sprays

101 – LIQUID GREASE

Product description	Advantages	Area of application	Technical data
Synthesis fluid grease without PTFE	✓ Excellent flow properties ✓ Reduces friction and wear ✓ Excellent corrosion protection ✓ Contains a UV component ✓ Resistant to cold and hot water ✓ Temperature-stable from -40°C to +150°C ✓ Does not become sticky or form a residue ✓ A pleasant vanilla scent	✓ Long-term lubrication for all metal components subjected to medium to high loads ✓ Wherever an oil spray doesn't last long enough ✓ For joints, hinges, sliding parts, bolts, locking wedges, guide rails, levers, linkages ✓ During every inspection and maintenance	✓ Colour: cream ✓ Density (20 °C) [g/cm³]: 0.79 ✓ Base oil: semi-synthetic ✓ Flash point [°C]: -80 ✓ Operating temperature [°C]: -40 to 150
Packaging: 400 ml spray can			

901 – FLUID GREASE +

Product description	Advantages	Area of application	Technical data
High-quality, synthetic active fluid grease for reducing friction and wear	✓ Excellent corrosion and wear protection thanks to a calcium sulphonate complex soap formula ✓ Reduces friction and wear, particularly under extreme loads ✓ Provides good flow and wetting of surfaces	✓ Long-term lubrication for all moving parts (e.g. linear guides, spindle drives, door hinges, joints, hinges, sliding parts, bolts, lock cylinders, locks, linkages, etc.) ✓ Particularly well suited for use in vehicle interiors	✓ Colour: beige ✓ Density (20 °C) [g/cm³]: 0.87 ✓ Base oil: synthetic ✓ Flash point [°C]: -80 ✓ Operating temperature [°C]: -40 to 180
Packaging: 400 ml spray can			

908 – MAINTENANCE GREASE+

Product description	Advantages	Area of application	Technical data
Fully synthetic high-performance grease containing boron nitride, designed for the most demanding conditions and loads, with excellent resistance to high temperatures and water	✓ Fully synthetic grease with boron nitride additives for reliable minimum quantity lubrication ✓ Excellent pressure absorption and outstanding separation performance with a welding force of > 10,000 N in accordance with DIN 51350 ✓ Excellent performance thanks to its high drop point ✓ Extremely high water resistance ✓ Temperature range from -40 °C to +180 °C ✓ Formula free from silicone oil, PFAS and microplastics ✓ Resin- and acid-free ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ For the lubrication of heavily loaded components such as bearings, levers, guides, spindles, joints and seat rails ✓ Particularly suitable for hard-to-reach lubrication points ✓ Excellent protection against corrosion and flash rust ✓ For applications where oil sprays do not last long enough	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.8 ✓ Base oil: synthetic ✓ Thickener: calcium sulphonate complex soap ✓ Base oil viscosity (40°C) [mm²/s]: 50 ✓ Solid lubricant: inorganic ✓ Flash point [°C]: -80 ✓ Thixotropic: yes ✓ Salt spray test [h]: > 120 ✓ Operating temperature [°C]: -40 to 180
Packaging: 500 ml spray can 400 ml spray can			





921 – ADHESIVE LUBRICANT +

Product description	Advantages	Area of application	Technical data
A synthetic lubricant with excellent adhesion, low tendency to drip and emergency running properties	✓ Immediate and extremely good adhesion on all substrates with reduced consumption ✓ Boron nitride as a friction-reducing functional component with good emergency running properties ✓ High resistance to pressure and temperature, excellent spreading properties after application, and excellent damping properties ✓ Wide temperature range from -40 °C to +180 °C ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane	✓ For the permanent lubrication of moving parts such as chains, ropes, open drives, levers, joints, linkages, hinges, sliding surfaces and bearings where a high-adhesion lubricant is required ✓ For overhead lubrication points where dripping must be prevented	✓ Colour: colourless, yellowish, cloudy ✓ Density (20°C) [g/cm³]: 0.79 ✓ Base oil: synthetic ✓ Base oil viscosity (40°C) [mm²/s]: 612 ✓ Solid lubricant: inorganic ✓ Flash point [°C]: -80 ✓ Thixotropic: no ✓ Pour point [°C]: -36 ✓ Operating temperature [°C]: -40 to 180
Packaging: 500 ml spray can 400 ml spray can			

rust remover

103 – PENETRATING OIL

Product description	Advantages	Area of application	Technical data
Extremely fast rust remover with maximum penetration and lubricating properties	✓ MoS₂ particles ensure maximum protection against re-blocking ✓ Loosens corroded and oxidised screw and plug connections in seconds ✓ Extreme penetrating action ✓ Extremely high lubricating effect, hence also high resistance to disassembly ✓ Effective even at higher temperatures ✓ Highly effective even on light metals and non-ferrous metals	✓ Quick removal of rust-seized screws, bolts, tie rods, etc. ✓ Improving joint mobility	✓ Colour space: colourless ✓ Density (20°C) [g/cm³]: 0.79 ✓ Solid lubricant: MoS₂ ✓ Flash point [°C]: > 61 ✓ Thixotropic: no ✓ Operating temperature [°C]: -10 to 80
Packaging: 400 ml spray can			

TUNPRO – BIO PENETRATING OIL

Product description	Advantages	Area of application	Technical data
Rust remover with excellent penetration	✓ For reliable disassembly thanks to excellent penetrating and rust-dissolving properties ✓ High penetrating and seeping action ✓ Does not harden or stick ✓ Contains renewable raw materials	✓ When dismantling corroded machine components to loosen or release seized screws, bolts, levers, cable pulls and joints ✓ General applications in mechanical and vehicle engineering where environmentally friendly and clean working practices are required	✓ Colour: brown ✓ Density (20°C) [g/cm³]: 0.82 ✓ Base oil: Esters ✓ Base oil viscosity (40°C) [mm²/s]: 20 ✓ Flash point [°C]: -80 ✓ Thixotropic: no ✓ Operating temperature [°C]: -10 to 140
Recommended cleaner: TUNCLEAN FDB TUNCLEAN 700 915 916			
Packaging: 400 ml spray can 20 l canister 200 l barrel			

903 – PENETRATING OIL+

Product description	Advantages	Area of application	Technical data
H1: Highly effective synthetic rust remover for removing parts that are firmly rusted in place, thanks to its extreme cooling effect	✓ Excellent Disassembly safety ✓ Loosens oxidised screw and plug connections in seconds through thermal shrinkage ✓ Extremely low cooling temperature of up to -60 °C ✓ Suitable for use in high-temperature environments ✓ High creep resistance ✓ Effectively repels moisture and damp ✓ Can also be used on light metals and non-ferrous metals ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ To facilitate the dismantling of oxidised metal screw and plug connections ✓ Suitable for lubricating tie rods, joints and lock cylinders ✓ Particularly suitable for use in vehicle interiors	✓ Colour: white, cloudy ✓ Density (20°C) [g/cm³]: 0.7 ✓ Base oil: synthetic ✓ Base oil viscosity (40°C) [mm²/s]: 30 ✓ Solid lubricant: inorganic ✓ Flash point [°C]: -80 ✓ Thixotropic: no ✓ Pour point [°C]: < -60 °C ✓ Operating temperature [°C]: -40 to 180
Packaging: 500 ml spray can 400 ml spray can			

TUNAP

Maintenance

Dry lubricants and bonded coatings

TUNCOAT SBM – RELEASE AGENT

Product description	Advantages	Area of application	Technical data
Air-drying, inorganic and non-slip MoS ₂ anti-seize compound with outstanding load-bearing capacity	✓ Quick-drying ✓ Low coefficient of friction ✓ For extremely heavy loads ✓ Even at low speeds ✓ Does not bind dust ✓ Excellent resistance to water and weathering ✓ Reduces friction and wear ✓ Temperature range from -180 °C to +450 °C (+630 °C in an oxygen-free environment)	✓ As a lubricant for guides, sliding surfaces, conveyor belts, transport rollers, etc., where oil- and grease-based lubrication is not desirable. ✓ As a base lubricant for guides, to be used in combination with standard lubricants to prevent stick-slip. ✓ As a coating for cylinder head bolts and switches ✓ For the running-in of heavily loaded gear wheels	✓ Colour range: grey, black ✓ Density (20°C) [g/cm³]: 1 ✓ Solid lubricant: MoS₂ ✓ Recommended film thickness [µm]: > 70 ✓ Flash point [°C]: 23 ✓ Thixotropic: no ✓ Operating temperature [°C]: -180 to 450
Packaging: 400 ml spray can			

TUNSOLID TE 812 – PTFE BONDED COATING

Product description	Advantages	Area of application	Technical data
Air-drying bonded coating with light-coloured PTFE solid lubricants and high-pressure absorption capacity	✓ Quick-drying ✓ Light and transparent ✓ Good compatibility with rubber, plastics and metal ✓ Does not bind dust ✓ Water-resistant ✓ Excellent adhesion to metal surfaces, ensuring reliable wear protection for the anti-seize compound ✓ For improved operational safety with clean and dry surfaces	✓ As the sole lubricant for guides and sliding surfaces subject to moderate loads, where oil- and grease-free lubrication is essential. ✓ For the basic lubrication of guideways and bedways, in conjunction with suitable lubricants to prevent stick-slip	✓ Colour: white, cloudy ✓ Density (20°C) [g/cm³]: 0.85 ✓ Solid lubricant: PTFE ✓ Recommended film thickness [µm]: 10–30 ✓ Flash point [°C]: -40 ✓ Thixotropic: no ✓ Operating temperature [°C]: 250
Packaging: 400 ml spray can			

TUNAP

Maintenance

TUNPRO TR – DRY LUBRICANT

Product description	Advantages	Area of application	Technical data
H2 synthetic High-performance dry lubricant with solid lubricants	✓ Excellent adhesion of the wax film ✓ Excellent corrosion protection for a long component service life, even in adverse conditions ✓ No dirt or dust adheres to the surface as it is dry	✓ For lubrication at high speeds without dripping or rubbing off ✓ For the lubrication of all sliding surfaces, splined shafts, universal joints and cross joints, spindles, guides, conveyor chains and gears, particularly in dusty environments	✓ Colour: beige ✓ Density (20°C) [g/cm³]: 0.71 ✓ Solid lubricant: PTFE ✓ Recommended film thickness [µ]: 10–20 ✓ Flash point [°C]: -4 ✓ Thixotropic: no ✓ Operating temperature [°C]: -40 to 250
Packaging: 400 ml spray can			

Wax sprays

TUNPRO K – HIGH-PERFORMANCE CORROSION PROTECTION

Product description	Advantages	Area of application	Technical data
Wax spray for long-lasting protection with excellent anti-corrosion properties	✓ Excellent performance at both low and high temperaturesperformance across a wide temperature range ✓ A highly adhesive, elastic and non-slip wax film for long-lasting corrosion protection and minimal dirt build-up ✓ A self-repairing protective layer that protects against dents and minor scratches ✓ Excellent flow properties for even film formation and optimum penetration, even in hard-to-reach areas (e. g. folds, sheet metal overlaps) ✓ Reduced friction, wear and tribocorrosion, combined with excellent water resistance – even under demanding conditions (e. g. wire ropes used outdoors)	✓ For sealing and protecting hard-to-reach areas, semi-finished products and finished parts ✓ In particular, for the protection of bare metal parts, moulds, tools and slideways during storage and transport ✓ For the outdoor and shed storage of vehicles and machinery (e.g. in the event of decommissioning or overwintering) ✓ In areas that are difficult to access, such as folds, sheet metal overlaps, flanges, etc. ✓ For the protection and lubrication of wire ropes and chains; can also be used as a non-volatile die lubricant	✓ Colour: brownish ✓ Density (20°C) [g/cm³]: 0.78 ✓ Thickener: inorganic ✓ Solid lubricant: wax ✓ Recommended film thickness [µm]: > 50 ✓ Flash point [°C]: -25 ✓ Thixotropic: no ✓ Salt spray test [h]: > 720 ✓ Operating temperature [°C]: -40 to 250
Packaging: 500 ml spray can 20 l canister			



TUNPRO WK – TRANSPARENT ANTI-CORROSION WAX

Product description	Advantages	Area of application	Technical data
Wax spray for temporary corrosion protection with good penetration properties Available variants: colourless fluorescent n-hexane-free Packaging: 400 ml spray can	✓ Wax spray for temporary protection with good penetration and anti-corrosion properties ✓ Excellent water resistance ✓ free from n-hexane ✓ With fluorescent dye for easy visual inspection	✓ For sealing and lubricating of hard-to-reach areas, semi-finished products and finished parts ✓ As a non-volatile die-cutting and drawing agent ✓ For parts that are prone to corrosion ✓ Corrosion protection at exposed sliding surfaces, such as bed rail guides ✓ For the protection and lubrication of tools, specifically for injection moulds	✓ Colour space: clear ✓ Density (20°C) [g/cm³]: 0.71 ✓ Solid lubricant: wax ✓ Recommended film thickness [µm]: 20–50 ✓ Flash point [°C]: -26 ✓ Thixotropic: no ✓ Salt spray test [h]: > 20 ✓ Operating temperature [°C]: -25 to 40

Release agents and lubricants

904 – CARE AND LUBRICANT +

Product description	Advantages	Area of application	Technical data
NSF H1 silicone-free care spray for protecting and maintaining plastic and sealing materials Packaging: 400 ml spray can	✓ Transparent lubricating, release and maintenance oil as a noise-reducing agent for squeaking and creaking noises in the plastics industry ✓ Good compatibility with common plastics and elastomers ✓ Wide temperature range from -25 °C to +140 °C ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ If the seat belts and window guides ✓ To reduce noise – particularly inside the vehicle ✓ For the care and cleaning of rubber and plastic parts ✓ Mould release agents in the industrial manufacture of plastic parts	✓ Colour: silver ✓ Density (20°C) [g/cm³]: 0.99 ✓ Flash point [°C]: -12 ✓ Thixotropic: no ✓ Operating temperature [°C]: -40 to 80

905 – SILICONE OIL+

Product description	Advantages	Area of application	Technical data
High-quality silicone oil for the care and preservation of plastic and sealing materials, NSF H1 certified Packaging: 400 ml spray can	✓ High-quality, transparent, physiologically safe lubricant and release agent ✓ Excellent compatibility, as well as outstanding care and protection for plastic and sealing surfaces ✓ Good compatibility with all common materials ✓ Colourless, non-staining, non-marking and non-greasy ✓ Extended temperature range from -50 °C to +200 °C ✓ Formula free from PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	✓ For the protection and care of surfaces ✓ As a lubricant for all plastics and seals in vehicles and machinery ✓ Also as a mould release agent, specifically for the plastics processing industry	✓ Colour: silver ✓ Density (20°C) [g/cm³]: 0.93 ✓ Flash point [°C]: -12 ✓ Thixotropic: no ✓ Operating temperature [°C]: -50 to 200

Silicone sprays

907 – SILICONE GREASE+

Product description	Advantages	Area of application	Technical data
Extremely water-resistant Silicone fluid grease with high heat and cold resistance, NSF H1 certified Packaging: 400 ml spray can	✓ Prevents unwanted noise between plastic parts and against metal or rubber ✓ Reduces friction wear by forming a colourless film of grease ✓ Extremely high water resistance or water-repellent properties ✓ Adheres particularly well to plastic and rubber ✓ Additional temperature range from -50 °C to +200 °C ✓ Formula free from silicone oil, PFAS and microplastics ✓ free from n-hexane ✓ No toxicologically relevant labelling	For creaking noises and for lubricating: ✓ Plastic to rubber ✓ Plastic to metal or ceramic ✓ Rubber against painted surfaces, e.g. door seals ✓ Ideal for sliding doors and sunroof guides	✓ Colour space: whitish ✓ Density (20°C) [g/cm³]: 0.97 ✓ Flash point [°C]: -12 ✓ Thixotropic: no ✓ Operating temperature [°C]: -50 to 200

TUNAP

Maintenance

Protective coatings

291 – METAL PROTECTIVE COATING

Product description	Advantages	Area of application	Technical data
Metal-protecting Polymer touch-up paint	✓ Based on high-purity, electrochemically active zinc metal powder combined with ultra-fine metal pigments ✓ Suitable for damage to hot-dip galvanised and electro-galvanised surfaces. Provides long-lasting protection against corrosion for treated surfaces ✓ Restores damaged areas of the galvanised surface ✓ Very high long-term corrosion protection ✓ Can be painted over and heat-cured ✓ Temperature-stable up to +500°C ✓ Saltwater-resistant ✓ A silvery-white film of varnish	✓ To maintain the perforation warranty on replacement parts in accordance with the manufacturer's conditions for galvanised bodywork ✓ On all damaged, hot-dip galvanised and electro-galvanised surfaces ✓ After all welding work ✓ Before spot welding	✓ Colour: silver ✓ Density (20°C) [g/cm³]: 0.99 ✓ Recommended film thickness [µm]: > 50 ✓ Flash point [°C]: -12 ✓ Thixotropic: no ✓ Operating temperature [°C]: -50 to 80
Packaging: 300 ml spray can			

Cooling spray

TUNPRO HFO – COOLING SPRAY

Product description	Advantages	Area of application	Technical data
Refrigerant spray for repairs, installation and troubleshooting	✓ Can be used both for maintenance and for fault detection, even in electrical applications. ✓ Electrically insulating ✓ Non-flammable ✓ Excellent biocompatibility ✓ For local cooling down to approx. -40 °C within a few seconds ✓ Evaporates quickly and leaves no residue	✓ Fast and time-saving cooling for cold start applications ✓ Prevents heat loss during soldering ✓ Enables easy installation and removal of components such as bearings, bushings, shafts, etc., and is suitable for permanent connections ✓ Helps remove adhesive or rubber residues from surfaces	✓ Colour space: transparent ✓ Density (20 °C) [g/cm³]: 1.17
Packaging: 400 ml spray can			



TUNAP

Industry solutions and areas of application



High-performance lubricants for industry

TUNAP develops a wide range of specialist lubricants for various industrial sectors, each designed for specific applications requiring tailored solutions. We offer tailor-made combinations of lubricants and application methods that are precisely aligned with your needs. By ensuring that your machinery and equipment are properly lubricated with our products, we help guarantee reliable and safe operation.



Glass industry

Lubricants used in the food and beverage industry must be food-grade and particularly safe for consumers, as they may come into direct contact with food products. Food-grade greases are primarily used to lubricate and protect machine parts from moisture, especially under demanding conditions such as cold, heat, steam and water. The requirements for lubricating greases in this industry are diverse, as production conditions often involve extreme temperatures ranging from over 200 °C down to -40 °C. In addition to temperature resistance, these lubricants must also provide strong adhesion and resistance to acids, alkalis, water and surfactants in order to effectively protect metal and plastic surfaces.

TUNAP offers a high-performance range of food-grade release agents, lubricants, cleaners and surface protection products with NSF H1 registration. Alongside technical performance, hygiene, product safety and certification are key priorities. The use of TUNAP food-grade greases reduces downtime and extends maintenance intervals for plant and machinery, enabling significant time and cost savings.

Plastics industry

In the production process of the plastics injection moulding industry, flawless quality and maximum production efficiency are of critical importance. Various processes are used to shape plastics into the desired form.

The machines and systems involved are subject to extreme stresses. They are exposed to enormous forces of several hundred kilonewtons and temperatures exceeding 200 °C. To ensure that these machines and systems can operate reliably over many years, specialised lubricants are required that are precisely tailored to the tribological requirements of each lubrication point.

Although the investment in high-quality lubricants represents only a relatively small portion of the maintenance budget for an injection moulding system, these lubricants can significantly increase the productivity of the entire operation.

TUNAP offers a professional range of release agents, lubricants, cleaners and surface protection products. This portfolio makes it possible, for example, to achieve the highest possible shot counts in the plastics injection moulding industry.



Glass industry

In the industrial manufacture of hollow glass, lubricants are continuously exposed to extremely high temperatures of well over 200 °C. Depending on the size of the plant, numerous lubrication points must be reliably serviced. Many glass products are used in the food industry, making the use of NSF-registered lubricants in the cold-end area a decisive safety and competitive advantage.

TUNAP offers a comprehensive range of lubricants, cleaners and surface protection products specifically developed to increase production output. TUNAP products are characterised by minimal residue formation and enable extended lubrication intervals through the use of centralised lubrication systems. This ensures reliable operation of machinery and equipment while reducing maintenance and repair costs.



Corrugated board industry

Corrugated board and paper are subjected to extreme conditions during production, including high temperatures, aggressive chemicals and high pressure. Specialised lubricants play a crucial role in ensuring the safety, durability and continuous operation of the entire production line.

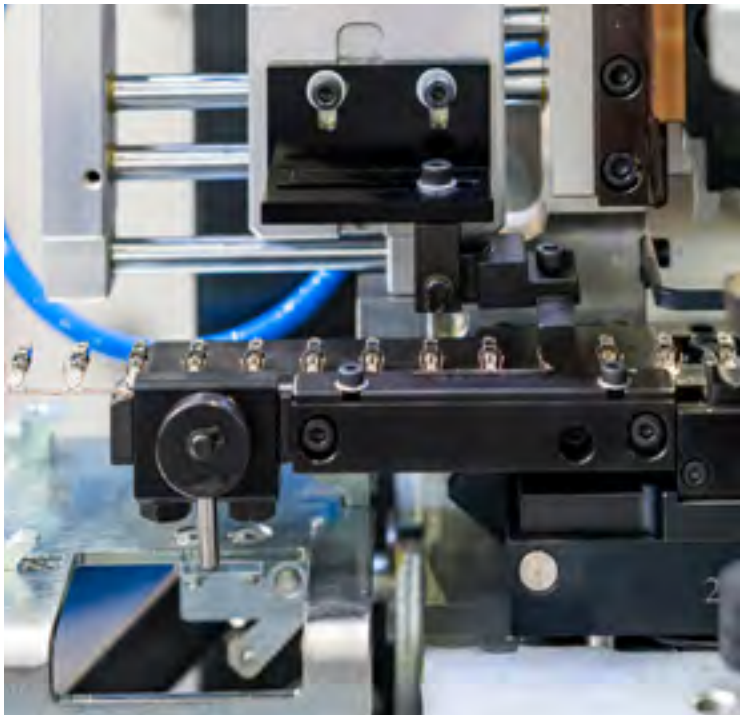
They protect against wear and operational failures, thereby increasing productivity. The growing demands on lubricants and maintenance products are therefore critical – both for maximising efficiency and for protecting people and machinery. At TUNAP, we offer a comprehensive range of lubricants and maintenance solutions covering everything from rollers in the wet section to cutting machine oils. Our goal is to ensure continuous, reliable and trouble-free production for our customers.



Machine tool industry

The primary purpose of lubricating machine tools is to ensure reliable operation under extreme loads at the limits of specific processes and materials. The challenges for lubrication and maintenance are considerable, including the ingress of machining fluids, moisture and heat. Under these demanding conditions, operational reliability can only be guaranteed if bearings, punching and cutting tools, gearboxes and chains are lubricated regularly with the correct dosage of high-performance lubricants.

TUNAP solutions help meet these challenges – reducing costs, increasing productivity and protecting users. Our comprehensive product range covers lubrication solutions, including minimum quantity lubrication, for linear drives, bearings and spindles, as well as for chains, bedway systems and presses.



Rolling bearing industry

Rolling bearings transmit forces between moving components using rolling elements and are used in a wide range of machines and systems – from watches to ships. Like all moving parts, they must be properly lubricated to meet their specific requirements.

Lubrication not only prevents corrosion, wear and friction, but also protects against environmental influences and ensures the efficient removal of heat and contaminants. These demands are particularly challenging, as only a limited amount of lubricant is typically available within the lubrication process.

TUNAP's high-performance lubricants are precisely engineered to meet these requirements. They help extend the service life and reliability of rolling bearings while improving efficiency and reducing noise levels.

TUNAP product selection guide

Roller Bearings



All-purpose grease	Aquatic environment	Heavy load	Moderate exertion	High temperatures	Extremely high temperatures	Food certifications (NSF H1, Halal, Kosher)	High speed	Chemical resistance	Formulation free from silicone oils	Product	Available NLGIs	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Product information	Page
✓	✓	✓		✓		✓			✓	908 MAINTENANCE GREASE+	2	-40	180	Optimal wear protection	SDS	PI	55
		✓		✓					✓	TUNGREASE 250	2	-30	200	Excellent biocompatibility	SDS	PI	26
		✓			✓	✓		✓	✓	TUNGREASE 300	000, 1, 2, 2-3	-40	250	Excellent biocompatibility	SDS	PI	26
		✓			✓			✓	✓	TUNGREASE 400	2	-30	300	Excellent biocompatibility	SDS	PI	27
		✓			✓	✓		✓	✓	TUNGREASE BA	2	-20	350	Extreme chemical stability	SDS	PI	29
✓	✓	✓							✓	TUNGREASE CK-2	2	-20	140	High water resistance	SDS	PI	19
	✓	✓		✓					✓	TUNGREASE CM-2/460	00, 2	-20	160	Exceptional water resistance	SDS	PI	19
	✓	✓		✓		✓			✓	TUNGREASE CP-2/460	2	-40	160	Exceptional water resistance	SDS	PI	21
✓	✓	✓		✓		✓			✓	TUNGREASE CP-2/200	2	-40	160	Optimal wear protection	SDS	PI	21
✓	✓	✓		✓		✓			✓	TUNGREASE CP-2/50	00, 1, 2	-40	140	Optimal wear protection	SDS	PI	20
	✓	✓				✓	✓		✓	TUNGREASE CP-2/25	2	-50	120	High speeds and heavy loads	SDS	PI	20
✓			✓						✓	TUNGREASE DAB	2	-20	120	Food grease	SDS	PI	29
✓			✓						✓	TUNGREASE EP-2	2	-30	120	Multi-purpose grease	SDS	PI	23
✓		✓				✓			✓	TUNGREASE H1/EP-2	00, 2	-35	130	Fully synthetic	SDS	PI	22
✓			✓			✓			✓	TUNGREASE H1/EP-1 150	1	-40	130	Fully synthetic	SDS	PI	22
✓			✓	✓			✓		✓	TUNGREASE LMO-2/40	0, 1, 2	-30	140	Exceptionally smooth operation	SDS	PI	23
✓			✓	✓			✓		✓	TUNGREASE LN-2/100	2	-40	160	Long-term lubrication	SDS	PI	24
✓			✓	✓			✓		✓	TUNGREASE LP-1	1	-40	130	Low temperatures	SDS	PI	24
✓			✓	✓			✓		✓	TUNGREASE LP-1 LT	1	-50	130	Low temperatures	SDS	PI	25
		✓							✓	TUNGREASE LP-2/D6	2	-50	150	Damping	SDS	PI	25

TUNAP product selection guide

Chains



Fat	Oil	Good adhesion	Low temperatures	High temperatures	Extremely high temperatures	High speed	Food certifications (NSF H1, Halal, Kosher)	Formulation free from silicone oils	Low dirt retention	Product	Base oil viscosity at 40 °C in mm ² /s	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Product information	Page
	✓							✓		100 MULTIFUNCTIONAL OIL	< 20,5	-25	120	High-performance multi-purpose oil	SDS	PI	53
✓		✓	✓	✓			✓	✓		901 FLUID GREASE+	50	-40	180	High-performance lubricating grease spray	SDS	PI	55
	✓		✓	✓			✓	✓	✓	902 MAINTENANCE OIL+	22	-40	180	Fully synthetic maintenance oil	SDS	PI	54
	✓		✓	✓			✓	✓	✓	904 CARE AND LUBRICANT+	15	-40	180	Mineral oil-based release, assembly and maintenance spray	SDS	PI	60
	✓	✓				✓	✓	✓		921 ADHESIVE LUBRICANT+	620	-40	180	Excellent adhesion	SDS	PI	56
	✓				✓			✓		TUNERT FL 460	490	-20	250	Very low evaporation, excellent resistance to chemicals	SDS	PI	44
	✓						✓	✓	✓	TUNFLUID DAB	70	-5	100	Multi-Purpose grease	SDS	PI	33
	✓			✓				✓	✓	TUNFLUID HT 200	200	-20	240	OMC ₂ friction optimisation technology	SDS	PI	34
	✓	✓		✓		✓		✓		TUNFLUID HT 2200	4100	0	220	Excellent adhesion	SDS	PI	34
	✓			✓	✓	✓		✓		TUNFLUID HTC 260	260	-25	250	Excellent high-temperature performance	SDS	PI	35
	✓			✓	✓	✓	✓	✓		TUNFLUID HTFG 260	260	-10	250	Excellent high-temperature performance	SDS	PI	35
	✓		✓					✓	✓	TUNFLUID LT 220	220	-30	200	OMC ₂ friction optimisation technology	SDS	PI	36
	✓		✓	✓			✓			TUNGARD FD	30	-50	140	H1 multifunctional oil with excellent low-temperature performance	SDS	PI	53
✓		✓	✓	✓		✓	✓	✓		TUNGREASE CP-2/50 (AEROSOL)	50	-40	140	High-performance grease diluted with solvent, in spray form	SDS	PI	20
		✓	✓	✓				✓		TUNPRO K	-	-40	250	Anti-corrosion wax	SDS	PI	59
			✓			✓		✓	✓	TUNPRO TR	-	-40	250	Dry lubricant	SDS	PI	58

TUNAP product selection guide

Valves and Seals



Metal-polymer contact	Polymer-polymer contact	Chemical resistance	Drinking water certification	Food certifications (NSF H1, Halal, Kosher)	Formulation free from silicone oils	Product	Available NLGIs	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Productinformation	Page
✓	✓			✓	✓	904 CARE AND LUBRICANT+	-	-15	180	Mineral oil-based release, assembly and maintenance spray	SDS	PI	60
✓	✓	✓		✓		905 SILICONE OIL +	-	-50	200	Mineral oil-based release, assembly and maintenance spray	SDS	PI	61
✓	✓	✓		✓		907 SILICONE GREASE+	000	-50	200	Silicone release spray	SDS	PI	61
✓	✓	✓			✓	TUNGREASE 300	2	-40	250	Extremely high chemical stability	SDS	PI	26
✓	✓	✓	✓	✓		TUNGREASE ST-3	3	-50	180	Drinking water approvals from KTW, ACS and WRAS	SDS	PI	27
✓	✓				✓	TUNGREASE BE-2/200	2	-20	140	Compatibility with NBR, EPDM, FKM and silicone	SDS	PI	28
✓	✓	✓		✓		TUNSIL A1	1-2	-50	180	Suitable for low and high temperatures	SDS	PI	30

TUNAP product selection guide

Glass Machinery

Centralised lubrication of IS machines	Central lubrication of AIS machines	Central lubrication system for NIS machines	plunger	scissor blade	Registered with the NSF	Halal and Kosher certified	Product	Base oil viscosity at 40 °C in mm²/s	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Productinformation	Page
			✓				TUNFLUID G 100 P	100	-20	120	Extremely low residue formation and very good oxidation stability	SDS	PI	40
				✓			TUNFLUID HT 200	220	-30	200	Extremely low evaporation and residue formation	SDS	PI	34
✓					H2		TUNFLUID HTG 200	4100	0	220	Extremely low evaporation and residue formation	SDS	PI	40
✓	✓			✓	H2		TUNFLUID HTG 220	220	-25	180	Extremely low evaporation and residue formation	SDS	PI	41
✓	✓	✓	✓	✓	H1	✓	TUNFLUID HTFG 260	260	-30	250	Extremely low evaporation and residue formation	SDS	PI	35

TUNAP product selection guide

Screws



Free from mineral oil	Metallic solids	No drop point	High load-bearing capacity	Release agent	Prevention of stick-slip	Protection against tribocorrosion	Waterproof	Good biodegradability	Food certifications (NSF H1, Halal, Kosher)	Product	Base oil viscosity at 40 °C in mm²/s	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Product information	Page
✓		✓							✓	903 RUST REMOVER+	30	-40	60	Rust remover for dismantling	SDS	PI	57
✓	✓	✓	✓	✓						TUNPAS AL	220	-40	250	Dry lubrication up to 1100 °C	SDS	PI	16
✓	✓	✓		✓						TUNPAS CU	220	-35	250	Dry lubrication up to 1100 °C	SDS	PI	17
✓		✓		✓		✓				TUNPAS MS	220	-40	200	Dry lubrication up to 650 °C	SDS	PI	16
✓		✓	✓		✓	✓	✓			TUNPAS WP		-30	250	Dry lubrication up to 1450 °C	SDS	PI	15
		✓	✓	✓	✓	✓				TUNGREASE CF-33	200	-20	200	Dry lubrication up to 1100 °C	SDS	PI	17
✓			✓		✓	✓			✓	TUNPAS H1	220	-40	200	Dry lubrication up to 1000 °C	SDS	PI	15
						✓	✓			TUNPRO K	-	-40	250	Anti-corrosion wax	SDS	PI	59

TUNAP product selection guide

Linear Guides



All-purpose grease	Aquatic environment	Heavy load	Moderate exertion	High temperatures	Extremely high temperatures	Food certifications (NSF H1, Halal, Kosher)	Low speed	High speed	Chemical resistance	Formulation free from silicone oils	Product	Available NLGIs	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Product information	Page
✓	✓	✓	✓			✓	✓	✓	✓	✓	901 FLUID GREASE+	50	-40	180	High-performance lubricating grease spray	SDS	PI	55
✓	✓	✓	✓	✓		✓	✓		✓	✓	908 MAINTENANCE GREASE+	2	-40	180	Optimal wear protection	SDS	PI	55
			✓	✓		✓	✓				TUNGEAR CGLP 220	-	-30	140	Fully synthetic	SDS	PI	37
		✓		✓			✓			✓	TUNGREASE 250	2	-30	200	Excellent biocompatibility	SDS	PI	26
		✓			✓	✓	✓		✓	✓	TUNGREASE 300	000, 1, 2, 2-3	-40	250	Excellent biocompatibility	SDS	PI	26
		✓			✓		✓		✓	✓	TUNGREASE 400	2	-30	300	Excellent biocompatibility	SDS	PI	27
		✓			✓	✓	✓		✓	✓	TUNGREASE BA	2	-20	350	Extreme chemical stability	SDS	PI	29
✓	✓	✓	✓				✓			✓	TUNGREASE CK-2	2	-20	140	High water resistance	SDS	PI	19
	✓	✓		✓			✓			✓	TUNGREASE CM-2/460	00, 2	-25	160	Exceptional water resistance	SDS	PI	19
	✓	✓		✓		✓	✓			✓	TUNGREASE CP-2/460	2	-40	160	Exceptional water resistance	SDS	PI	21
✓	✓	✓		✓		✓	✓			✓	TUNGREASE CP-2/200	2	-40	160	Optimal wear protection	SDS	PI	21
	✓	✓				✓		✓		✓	TUNGREASE CP-2/25	2	-50	120	High speeds and heavy loads	SDS	PI	20
✓	✓	✓		✓		✓				✓	TUNGREASE CP-2/50	00, 1, 2	-40	140	Optimal wear protection	SDS	PI	20
✓			✓							✓	TUNGREASE EP-2	2	-30	120	Fully synthetic	SDS	PI	23
✓		✓				✓	✓			✓	TUNGREASE H1/EP-2	00, 2	-30	130	Fully synthetic	SDS	PI	22
✓			✓			✓				✓	TUNGREASE H1/EP-1 150	1	-40	130	Fully synthetic	SDS	PI	22
✓			✓	✓				✓		✓	TUNGREASE LMO-2/40	0, 1, 2	-30	140	Exceptionally smooth operation	SDS	PI	23
✓			✓	✓				✓		✓	TUNGREASE LN-2/100	2	-40	160	Long-term lubrication	SDS	PI	24
✓			✓	✓				✓		✓	TUNGREASE LP-1	1	-40	140	Low temperatures	SDS	PI	24
✓			✓	✓				✓		✓	TUNGREASE LP-1 LT	1	-50	130	Low temperatures	SDS	PI	25
		✓					✓			✓	TUNGREASE LP-2/D6	2	-30	150	Damping	SDS	PI	25

TUNAP product selection guide

Gearboxes



mineral oil	Fully synthetic	Heavy load	Moderate exertion	Low temperatures	Higher temperatures	wear protection	Friction optimisation	Food certifications (NSF H1, Halal, Kosher)	Product	Viscosity index	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Productinformation	Page
✓		✓				✓	✓		TUNGEAR	≥ 100	-20	120	Extremely long service life and micro-smoothing	SDS	PI	36
	✓	✓		✓	✓			✓	TUNGEAR H1	≥ 140	-40	140	Extremely long service life	SDS	PI	37
✓			✓						TUNGEAR CLP	≥ 100	-15	100	Extremely long service life	SDS	PI	38
	✓	✓	✓			✓	✓	✓	TUNGEAR CGLP 220	≥ 140	-40	140	Extremely long service life	SDS	PI	37

TUNAP product selection guide

Compressors

mineral oil	Synthetic oil	Normal temperatures	Higher temperatures	Longer oil life	Friction optimisation	Food certifications (NSF H1, Halal, Kosher)	Product	Viscosity index	Lower temperature limit in °C	Upper temperature limit in °C	Further comments	Safety Data Sheet	Productinformation	Page
	✓	✓	✓	✓		✓	TUNAIR	≥ 140	-40	140	Exceptionally efficient and thermally stable	SDS	PI	38
	✓	✓	✓	✓	✓		TUNAIR PAO	≥ 100	-20	120	Exceptionally efficient and thermally stable	SDS	PI	39
✓	✓	✓					TUNAIR TS 46	≥ 110	-10	120	Semi-synthetic base oil	SDS	PI	39

TUNAP product selection guide

New Products



Water-based	Hydrocarbon-based	Dissolves oils and fats	Removes anti-corrosion coatings	Binds and washes away abrasive dust	Removes water-based polar contaminants	Removes salt and mineral deposits	Removes organic dirt	Quick-drying	Product	Food certifications (NSF H1, Hala!, Kosher)	Free of n-hexane	Acetone-free	Further comments	Safety Data Sheet	Product information	Page
	✓	✓	✓	✓	✓			✓	111 BRAKE AND PARTS CLEANER				Brake and parts cleaner containing ethanol and acetone	SDS	PI	47
	✓	✓	✓	✓	✓			✓	115 UNIVERSAL CLEANER			✓	Acetone-free brake cleaner	SDS	PI	47
	✓	✓	✓	✓	✓			✓	895 INTENSIVE CLEANER				High-performance cleaner containing acetone	SDS	PI	48
✓					✓	✓	✓		909 INTERIOR CLEANER +	A1	✓	✓	Water-based glass and surface cleaner	SDS	PI	50
	✓	✓	✓	✓				✓	915 CLEANER +	K1	✓		Safety cleaner containing acetone	SDS	PI	49
	✓	✓	✓	✓					916 BRAKE CLEANER+	K1	✓	✓	Acetone-free K1 brake cleaner	SDS	PI	48
	✓	✓	✓	✓					TUNCLEAN 700	H1 & K1		✓	Slow-evaporating all-purpose cleaner in an open container	SDS	PI	49
✓					✓	✓	✓		TUNCLEAN 5110		✓	✓	Universal cleaning concentrate for buildings, workshops and cleaning machines	SDS	PI	51
✓					✓	✓	✓		TUNCLEAN DFH-4A		✓	✓	Alkaline immersion and spray cleaning concentrate for industrial applications	SDS	PI	51
	✓	✓	✓	✓					TUNCLEAN FDB	H1 & K1		✓	Slow-evaporating all-purpose cleaner in an aerosol can	SDS	PI	50

TUNAP

Service and expertise

RESEARCH AND DEVELOPMENT AT THE HIGHEST LEVEL

Development | Quality control | Analysis | Chem.phys. properties | Test field | Performance tests

At our headquarters in Wolfratshausen, we operate comprehensive testing facilities to determine the key properties of lubricants. Our products undergo real-world testing to assess their performance across a wide range of conditions, including operating temperature, wear protection, and corrosion resistance. In addition, our greases are subjected to further analyses, such as rheology, shear behaviour, and damping performance.

These extensive testing capabilities enable TUNAP to deliver fast, reliable results and directly integrate findings into product development—resulting in clear benefits:

- ✓ Rapid solutions through high flexibility, short communication paths, and reduced development times
- ✓ A broad range of testing options tailored to individual customer requirements
- ✓ Reliable performance assurance and continuous optimisation

Measurement systems and test methods, including:

- ✓ SRV testing device (DIN 51834)
- ✓ Four-ball tester (DIN 51350)
- ✓ Brugger lubricant tester (DIN 51347)
- ✓ Salt spray test (DIN EN ISO 9227)
- ✓ EMCOR testing machine (DIN 51802)
- ✓ Thermogravimetric analysis
- ✓ FE9 rolling bearing test machine (DIN 51819)
- ✓ Viscosity determination (DIN 51810-1)
- ✓ Roll stability tester (ASTM D 1831)
- ✓ Electrical conductivity determination (DIN EN 27888)



Customer focus, flexibility, and bespoke solutions supported by excellent service.



Certified production processes and lubricants meeting the highest quality and environmental standards.



Advanced tribological testing methods tailored to your development needs.

Support from highly qualified chemists, engineers and technicians

TUNAP

Packaging sizes

Consultancy, development and production from a single source

We supply you with optimised containers so that you can design your processes effectively and cost-efficiently. We offer customised solutions that are precisely tailored to your needs. Our range of containers offers flexibility and guarantees efficiency and economy, saving resources and the environment, as well as reducing your in-house stock levels.

Depending on the product range, a variety of containers are available to suit your needs:

- ✓ Tube
- ✓ Aerosols
- ✓ Cartridge
- ✓ Hobbock
- ✓ IBC
- ✓ Cans
- ✓ Bottles
- ✓ Canister
- ✓ Barrel

We work with you to develop and produce your own brand.

We are also happy to work with you to develop product solutions tailored to the needs of your target group. Whether highly specialised or cost-optimised lubricating greases, oils and pastes, cleaners or additives of the highest quality - we supply what you need. As a manufacturer with our own aerosol filling facility, we have extensive knowledge of a wide range of application methods and packaging forms. This allows you to benefit from the optimum combination of product and application for your particular application.



TUNAP works.

We are at your disposal with help and advice to answer your questions and support you in selecting the right products, container sizes and packaging forms. We look forward to working with you and offering you high-quality lubricants and optimised solutions that meet your requirements.

We tailor our services to your individual needs:

Dispenser
100 g

Tubes
20 ml up to 300 ml

Cartridges
400 g / 500 g

Two-chamber cans / bag on valve

Bottles
30 ml up to 1000 ml

Single bag
3 g up to 20 g

TUNAP

Common packaging sizes



100 g

400 ml / 500 ml

500 ml

400 g / 800 g

1 l

1 kg

20 l

25 kg

160 - 180 kg / 200 l



For over 50 years, the TUNAP Group has been an internationally active manufacturer of aerosols and active ingredients for industrial and technical applications.

Research, development, manufacturing and sales all under one roof: TUNAP systems maintain, protect and combine innovative chemistry with a strong commitment to sustainability.



We look forward to seeing you.

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With friendly recommendation