



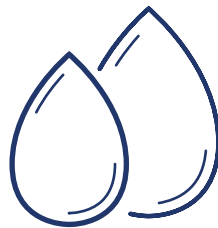
Product Range

Lubricants & Fuels

KRAHN

Your high-performance partner for specialty chemicals.

As an independent chemical distributor and sales and distribution partner to leading producers, we also bring together everything that processors in the chemical industry value: an extensive and high-quality product range, technical services as well as in-house laboratory support. We are committed to what we do with always an eye on the best solution.



**Lubricants &
Fuels**

Our locations

Thinking global and acting local



KRAHN Subsidiaries

 Hamburg
 Zaandam
 Milan
 Poznań
 Avon
 Athens
 Gothenburg
 Sandbach
 Aspe

Sales Offices

 Ceske Budejovice
 Tiszaújváros
 Sibiu
 Shanghai

Laboratories

 Bottrop
 Poznań
 Gothenburg
 Lainate

Warehouses

Many warehouses across Europe,
also with possibilities for bulk breaking



Additives for Engine Oils

Product Group	Product Name	Producer	Product Description
PCMO	Infineum	Infineum	Infineum's passenger car motor oil technology protects and enhances engines in gasoline, diesel, and alternative-fuel vehicles. It covers a wide range of engine performance requirements, meeting the latest API, ACEA, JAMA, and OEM specifications. The Infineum P-series, when combined with our other high quality componentries, delivers unique performance in diverse base stocks, providing excellent solutions addressing today's and future challenges for passenger and light duty engine oils.
HDDO	Infineum	Infineum	Infineum's heavy-duty diesel engine oil technology protects and enhance engines for on- and off-road applications. The Infineum D-series formulates lubricants meeting the latest API, ACEA, JAMA, and OEM specifications, delivering unique performance in combination with high-quality pour point depressants, viscosity modifiers, and other supplemental additives. With tightening emissions regulations and fuel economy mandates, the Infineum D-series addressing today's and future challenges for heavy duty engine oils in diverse basestocks.
Small Engine Oils	Infineum	Infineum	Infineum's small engine oil technology caters to both two-stroke and four-stroke engines, covering various applications like motorcycles, power tools, and recreational land and sea vehicles. For two-stroke engines, Infineum S products improve performance with less smoke, enhanced cleanliness, and reduced ring sticking, resulting in lower maintenance and longer service life. In four-stroke engines, Infineum offers tailored solutions for cleanliness, wear, corrosion, oxidation stability, and clutch friction performance, meeting specific requirements and OEM specifications in all conceivable applications.
Driveline/Power Transmission Fluids	Infineum	Infineum	Infineum T's power transmission fluids technology (PTF/ATF) plays a crucial role in cooling, protecting, and maintaining friction properties. Severe field testing confirms outstanding anti-shudder performance and gear protection. Tailored to meet OEM specifications for automatic, CVT, and DCT transmissions, they ensure smooth shifts and trouble-free performance across various temperatures. Their precise frictional characteristics make them widely used in the latest automatic transmissions. Infineum's skilled formulators provide cost-effective solutions that enhance fuel economy, durability, and enable "fill-for-life" benefits for unique OEM hardware systems including BEV and Hybrids.
Components	Infineum	Infineum	Lubricant formulators use diverse additive components to create specialized performance features in finished lubricants. Ask us for more options for your automotive formulations.
Pour Point Depressants	Infineum	Infineum	Infineum's V300 series of pour point depressants presents a solution to cold engine performance over a wide range of applications and base stock selection. By interfering with wax crystal growth patterns, these products boost the operability range of engine oil so it remains fluid at much lower temperatures. The result is better capability for easier starting, less engine wear and longer engine life.
Viscosity Modifiers	Infineum	Infineum	With their styrene-based chemistry, Infineum SV products are designed to deliver the demanding performance required of today's top-tier lubricants, including OEM factory fill and synthetic lubricants. The benefits include outstanding retention of low temperature pumpability throughout the life of the lubricant, the widest range of shear stability in the industry and unique product differentiation opportunities.

Additives for Industrial Lubricants

Product Group	Product Name	Producer	Product Description
Antioxidants	Additin® Naugalube™	Lanxess	Additin® and Naugalube™ series antioxidants retard ageing and extend the life of lubricants and lubricated machinery and components. The product ranges include primary antioxidants (aminic and phenolic) and secondary antioxidants based on phosphorus and sulphur compounds.
Corrosion Inhibitors	Additin® Calcinat™	Lanxess	Additin® Corrosion Inhibitors (CI) safeguard against metal oxidative decomposition and rusting in various settings. These additives protect ferrous metal components by forming a protective film, preventing corrosive substances from attacking. Applications include corrosion protection oils for metal parts during storage and transport, such as overseas shipping in corrosive environments.
Antiwear Additives & Friction Modifiers	Additin®	Lanxess	Additin® Antiwear (AW) additives protect machine parts, ensuring reliability and reducing maintenance costs. They suit diverse industries and lubricant applications. Additin® Friction Modifier (FM) addresses energy losses and optimizes friction for clutches, balancing environmental protection and cost efficiency.
Extreme Pressure Additives	Additin®	Lanxess	The Additin® Extreme-Pressure (EP) range is vital for modern metalworking fluids and applications like greases and transmission oils. LANXESS offers tailored solutions and expert guidance. Developed to meet industry demands, these products provide low-odor, light-colored additives that excel in solubility across various base fluids. With multifunctional properties, they effectively reduce friction and provide anti-aging protection. Additin® EP products form a protective sulfur-containing film on metal surfaces, lowering friction and preventing material damage.
Specialities	Additin®	Lanxess	Synthetic ester and polymer additives enhance affinity to diverse metal surfaces like stainless steel or aluminum, optimizing lubrication effectiveness. Non-ferrous metal deactivators with EP properties reduce corrosion, aging, and enhance lubricity and load-carrying capacity.
Packages	Additin®	Lanxess	The development of a high-performance industrial lubricant is extremely complex. In addition to many years of experience, which is required to predict the complex interactions of a wide range of additives in the final lubricant, extensive laboratory and field tests are necessary. Only a few companies are able to meet these requirements in-house. The Additin® lubricant additive packages not only offer our customers easy access to the formulation of high-performance lubricants, they also guarantee the full performance spectrum of the respective application, even at the prescribed dosage.
Synthetic Base Fluids	Hatcol® Synton®	Lanxess	Hatcol® esters elevate lubricant performance, serving as either primary base stocks or additive enhancers with other bases. This synergy yields balanced, cost-effective formulated lubricants. Hatcol® synthetic esters are integral to synthetic lubricants, bolstering high and low temperature capabilities, enhancing additive solubility, and increasing lubricity. Alone, they ensure peak high temperature performance; combined with PAO and Group III oils, they augment solubility, stability, elastomer compatibility, and cleanliness. Ester chemistry brings thermal stability, inherent polarity, leading to cleaner surfaces, extended life, biodegradability, fire resistance, and exceptional lubrication. Our extensive ester selection and expert support fulfill diverse lubrication needs. Synton® products are high viscosity, highly saturated, linear/branched polymers that are designed to be used as the high viscosity synthetic oil or viscosity modifier component of a high performance lubricant or synthetic lubricant formulation.

Additives for Industrial Lubricants

Product Group	Product Name	Producer	Product Description
Flame-retardant wear protection additives	Durad® Reolube®	Lanxess	Durad® are phosphate ester based AW/EP additives with excellent temperature resistant and flame-retardant properties. Critical applications such as aircraft turbines become safer with Durad®. Reolube® finished lubricating oils ensure reliable lubrication in particularly temperature- and fire-critical applications. In steam turbines of power plants, Reolube® turbo fluids prevent the ignition of oil in case of a leakage at the steam control valve. A fire can thus be prevented. Steel plants produce and process liquid steel at temperatures in excess of 1,000°C. Reolube® hydraulic fluids perform well in this severe environment.
Antifoams	Suretech	Petrico	A comprehensive range of high performance antifoams, including siloxane based and non-silicone based chemistries. Suitable for a wide range of applications, including tank-side application and dosing.
Rust Preventative Coatings	Petcor	Petrico	High performance range of rust preventive packages, coatings, and film formers, designed to help protect metal surfaces from the effects of rust and corrosion in the most challenging of circumstances. The easy to handle rust preventive packages, including the barium free and barium containing ranges, demonstrate exceptional salt spray performance results, while the film formers and other components offer the opportunity to develop and tailor a truly bespoke solution for your needs.
Thickeners	Alugel Calcium soaps Lithium soaps Magnesium soaps Sodium soaps Zinc soaps and others	Baerlocher	Baerlocher presents an extensive assortment of metal soaps, each boasting unique attributes. The collection encompasses e.g. calcium soaps, zinc stearate, magnesium stearate, sodium stearate, lithium soaps and aluminum stearate. These offerings find versatile utility as acid scavengers, stabilizers, lubricants, and release agents, with some ideally suited for gelling or hydrophobic purposes. Employing metal soaps can optimize production processes, often resulting in products characterized by smooth surfaces and minimal friction. Additionally, these substances can function as thickeners for lubricant and lubricating grease production. Available in diverse forms including powder, granules, sprayed prills, flakes, and pastilles, they offer a multifaceted solution to various industrial needs.
Detergents	Hybase Lobase	Lanxess	Hybase® and Lobase® detergents are widely used in transport applications. Together they offer a wide range of products from neutral to 500 TBN overbased detergents. The Lobase® range offers general purpose TBN neutral calcium sulfonate detergents. These are typically used as a detergent and rust inhibitor.
Metalworking	Neo acids	ExxonMobil Chemical	Additive for Organic Acid Technology (OAT), without any labelling.
	Dequest	Italmatch Chemicals	Phosphonates and polymers for water treatment: Threshold scale inhibition, Sequestration, Dispersion, Corrosion control
Antifoam	BYK	BYK	Defoamers polymer based and silicone based for oil and metalworking fluids
Rheology modifiers	Claytone	BYK	Organoclay for greases; rheology additives for Forging Lubricants (e.g. graphite in water)
Wax emulsions	Aquacer	BYK	Wax emulsions to improve temporary corrosion protection; applications: Anti-friction coatings, Dry film lubricants, Bonded coatings
Wetting & Dispersing Additives	Disperbyk	BYK	Wetting & Dispersing additives for the dispersion of Teflon in water or Forging Lubricants (e.g. graphite in water)
Biocides	PREVENTOL® BIOBAN™ KATHON™ METASOL® ROCIMA™	Lanxess	Biocides for lubricant applications and metalworking fluids providing effective and economical in preventing the growth of bacteria, fungi and yeasts. Broad portfolio of fast-acting substances for plant hygiene.

Additives for Large Engine Oils

Product Group	Product Name	Producer	Product Description
Gas Engine Oils	Infineum	Infineum	Infineum's gas engine oil additives protect and enhance the performance of gas engines in stationary and mobile applications. Clean burning natural gas direct drive systems offer cost-effective and environmentally sound alternatives to electric motors and diesel engines, with lower operating costs. Infineum M series utilizes industry-leading calcium salicylate detergent components, ensuring enhanced engine reliability and trouble-free operation. These additives deliver benefits like reduced piston deposits, resistance to oxidation and nitration, and increased wear protection, contributing to lower maintenance levels. Infineum products can be used to formulate gas engine oils across the full range of engine performance requirements up to and including the latest OEM specifications.
Marine Engine Oils	Infineum	Infineum	Infineum marine additives use patented detergent technology for cost-effective solutions in Trunk Piston Engine Oils (TPEO) and Marine Diesel Cylinder Lubricants (MDCL) for a wide range of OEM approved products. They enhance ship operation by extending time between engine repairs, reducing maintenance downtime. Combined with other additives, they meet unique performance needs. These additives are vital for medium-speed, four-stroke trunk piston engines running on heavy fuel oil (HFO). The additives address challenges like neutralizing combustion acids, handling water contamination, dispersing combustion products, and controlling deposits. As base stock trends shift towards Group II, Infineum's salicylate technology is essential to prevent issues with asphaltenes and deposits. Infineum M8040 additive package is a single oil solution designed for MAN Energy Solutions two-stroke engines running on low sulfur fuels. It ensures superior piston cleanliness, meets new OEM standards, and simplifies the supply chain with a single additive package for 40BN marine diesel cylinder lubricant, showing excellent performance on VLSFO and distillate fuel, contribution to lower oil consumption and carbon emissions, promoting sustainability.
Rail-Road	Infineum	Infineum	Modern locomotive engines face evolving demands in a competitive environment, including extended oil drain intervals. Infineum M brand railroad engine oil additives, formulated with salicylate detergent chemistry, offer high-performance lubrication. The exclusive, zinc-free additive technology excels in engine cleaning, reducing sludge and piston deposits, enhancing wear protection, and ensuring optimal engine operation during testing and real-world use.

Base Stocks

Product Group	Product Name	Producer	Product Description
Alkylated Naphthalene	Synesstic	ExxonMobil Chemical	Synesstic™ alkylated naphthalene (AN) base stocks are engineered to meet customer expectations for lubricants that excel in extreme conditions. These base stocks enhance lubricant durability and performance across various operating environments, ensuring optimal results for customers.
PAO	SpectraSyn	ExxonMobil Chemical	Formulators use SpectraSyn™ PAO synthetic base stocks to meet growing performance demands. They provide better low-temperature properties, low volatility for reduced oil consumption, as well as improved oxidative stability compared to mineral oil base stocks. With viscosity grades ranging from 2 to 100 cSt at 100°C, all grades of SpectraSyn are H1-approved, offering high VI for wear protection, and excellent stability for longer drain intervals.
mPAO	SpectraSyn Elite	ExxonMobil Chemical	SpectraSyn Elite™ metallocene polyalphaolefin (mPAO) synthetic base stocks meet increasing demands for energy efficiency, longer drain intervals, wider temperature range, and durability under severe conditions. With proprietary metallocene catalyst technology, available in 65, 150 and 300 cSt at 100°C, they offers improved shear stability, lower pour point, higher viscosity index, and better foam and air release performance compared to conventional PAO and mineral oil base stocks. H1-approved for industrial and automotive lubricants and greases.
White Oils	SIPMED	SIP	SIP offers the broadest viscosity range of pharmaceutical white oils (2 to 100 cSt at 40°C). It features colorless and odorless properties, is Kosher and Halal approved, Vegan certified, and compliant with European and US Pharmacopoeia regulations.
	SIPTECH	SIP	Key features of the product range includes being colorless, high purity, and offering a wide range of viscosity grades (4 to 100 cSt at 40°C). It has low aromatics, low toxicity, and is registered under NSF HX-1 and H1. It is also compliant with FDA 21CFR 178.3620(b).
Paraffinic	SIPMET	SIP	SIPMET and SIPMET ECO ranges are ideal for premium neat metalworking fluids, offering low pour points, Noack volatilities for better oil mist control, and minimal PAHs for environmental compliance. SIPMET ECO, with a 30% lower carbon footprint than conventional mineral base oils, provides an easy and sustainable solution for formulators to enhance their portfolio's performance. The specifications and quality are indistinguishable from conventional mineral base oils.
Refined Base Stock	SIP ID	SIP	The SIP ID (Isomerised Dewaxed) range, including ID LP (Isomerised Dewaxed Low Pour), offers highly refined, catalytically cracked base oils, rich in iso-paraffins. These oils possess exceptional low-temperature fluidity, low Noack volatilities, and when blended with appropriate additives, exhibit oxidation and thermal stability comparable to Group IV Polyalphaolefins (PAOs).
Intermediates	Exxal	ExxonMobil Chemical	Exxal™ alcohols are branched, primary alcohols with even- and odd-numbered hydrocarbon chains (C8 to C13). Their branched structure provides several advantages.
	Neo acids	ExxonMobil Chemical	ExxonMobil™ neo acids have highly branched structures with a carboxylic group attached to a quaternary carbon atom (R1, R2, and R3 are alkyl groups). The neo acid's steric hindrance ensures outstanding thermal and hydrolytic stability in derivatives, making it an exceptional building block.
Base Stocks	Various	Various	Group II, III, and V base oils can be sourced upon request.
PAG	SHR	Shrieve	A comprehensive range of Group V PAG base stocks, including both water insoluble and water soluble grades. Suitable for use in various industrial applications, PAG base stocks provide excellent thermal and oxidative stability, excellent lubricity, high film strength and load capacity.

Finished Lubricants

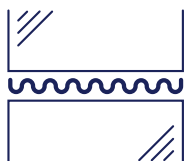
Product Group	Product Name	Producer	Product Description
Heating, Ventilation, Air Conditioning & Refrigeration Lubricants	ZEROL® Refrigeration Lubricants	Shrieve	We provide a diverse portfolio of PAG chemistry for HVACR, automotive air conditioning and heat pump systems as well as refrigeration system enhancers and boosters. As a leading global supplier, Shrieve offers refrigeration oils and compressor lubricants for industrial refrigerant applications based on a range of refrigerant gases. Our range, with viscosities from 2cSt to 380 cSt, meets industry demands and offers tailored solutions to enhance compressor lubrication and system performance.
Gas Compressor Lubricants	PROGILINE® Gas Compressor Lubricants	Shrieve	PAG-based synthetic gas compressor lubricants offer advantages over mineral oil counterparts, especially for compressors handling 'wet' hydrocarbon gas streams. Their high resistance to gas dilution maintains proper lubricant viscosity, ensuring sufficient oil film thickness and efficient compressor lubrication.
Finished calcium sulphonate complex greases	Various	Lanxess	Lanxess calcium sulphonate complex greases are characterised by exceptional mechanical stability, high dropping point, high load carrying performance, reduced wear, and excellent resistance to water and corrosion. Calcium sulphonate complex grease technology equals and in many ways outforms other premium, high temperature greases, such as lithium complex, aluminium complex, and polyurea.
Industrial Gear oils	PROGILINE®	Shrieve	PROGILINE® GEAR PG is a range of polyalkylene glycol based, synthetic, extreme pressure gear lubricants, providing high levels of load-carrying and wear protection. The range is designed to enable continuous operations at high temperatures with minimised friction and good thermal/oxidative stability properties.
Hydraulic oils	PROGILINE®	Shrieve	PROGILINE® Synthetic Hydraulic Fluids are ready formulated with the highest quality synthetic base stocks, along with the latest technological advances in additive systems, to provide superior antiwear, rust, corrosion, and extreme pressure production properties for all types of high-pressure hydraulic systems, including vane, piston, and gear pumps.

Fuel Additives

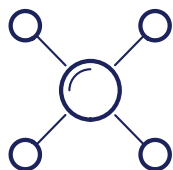
Product Group	Product Name	Producer	Product Description
Aftermarket Additives	PROGILINE® FA D (Diesel)	Shrieve	Diesel Additive Package maintains fuel system cleanliness, enhancing engine efficiency and reducing unplanned fuel-related maintenance. It helps to restore lost power, whilst improves fuel consumption, and emissions levels. The formulation offers oxidation and corrosion protection, reduced foaming for better fuel handling, and increased cetane number.
	PROGILINE® FA G (Gasoline)	Shrieve	Gasoline Additive Package helps to remove existing injector deposits ('clean-up'), prevents injector fouling ('keep-clean'), reduces particle emissions, and improves fuel efficiency, preserving engine power and ensuring fuel system reliability.

Available product range varies depending on the region.

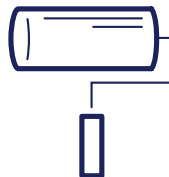
Markets



**Adhesives &
Sealants**



**Chemical
Intermediates**



Coatings



Construction



**Heat Transfer
Fluids**



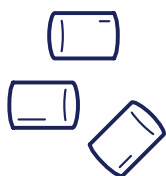
**Industrial Cleaning &
Home Care**



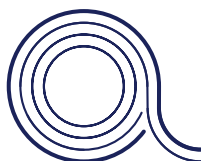
**Lubricants &
Fuels**



**Personal
Care**



Plastics



Rubber

Product Disclaimer

1. Any information given on the chemical and physical characteristics of our products, including technical advice on applications whether verbally, in writing or by testing the product, is given to the best of our knowledge. However, this information is given without obligation and does not exempt the buyer from carrying out own investigations and tests in order to ascertain the product's specific suitability for the purpose intended. The buyer is solely responsible for the application, utilisation and processing of the products, and must observe the laws and government regulations and the consequential rights of any third party. Any exception of the above-mentioned restrictions requires the manufacturer's express release in writing.
2. The products sold and/or supplied by us are not destined for the manufacture (i) of medical devices according to EU directive 93/42/EEC, in particular of implants, (ii) of biocides, (iii) of pesticides, (iv) of human and veterinary pharmaceuticals, (v) of food and feed products, (vi) of cosmetics, (vii) of weapons or other objects, designed to take human life or causing injuries.
3. At all times our Conditions of Sale apply.
4. Our product lists include dangerous goods. The correct marking of such goods is described in the respective datasheets.

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**Bring it
together!**



KRAHN Chemie brings
together all the elements
that create added value:
markets with innovations,
processors with producers
and questions with answers.

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