



LUBRICANTS

PRODUCT RANGE  
Czech Republic



## KRAHN CHEMIE – A STRONG PARTNER

WELCOME TO KRAHN CHEMIE. As an independent chemical distributor and sales partner to leading producers, we know that some things are simply better together. That's why we connect markets with innovations, processors with producers and questions with answers.

At KRAHN Chemie, you can find everything that a processor in the chemical industry values: a broad range of products from top



international producers, competent technical support, laboratory services and logistic solutions. We share your high standards in terms of speed, flexibility and quality – and have proudly served as your strong and reliable partner for more than 100 years.

We look forward to assisting and advising you.

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### BASESTOCKS

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Esters	Jayflex™	ExxonMobil Chemical	Synthetic esters provide a favourable viscosity-temperature behavior, a low Pour Point and an excellent ageing resistance.
Naphthenics	Synesstic	ExxonMobil Chemical	Alkylated Naphthalenes, Group V baseoil for extreme conditions, synthetic blendstock for automotive and industrial lubricants, H1 and H1-X approved
PAO (Metallocene)	SpectraSyn Elite™ 150	ExxonMobil Chemical	Metallocene PAO technology is the platform for the next generation of PAOs. SpectraSyn Elite 150 offers improved shear stability, a higher viscosity index (VI) and excellent cold temperature properties vs. conventional PAO. Typical applications are gear- and hydraulic fluids, compressor oils and greases.
PAOs	SpectraSyn™	ExxonMobil Chemical	Poly-Alpha-Olefins (PAO), group IV baseoil, viscosity range 2-1000 cST@100 °C. H1-approved.

### INTERMEDIATES

Acids	Neodecanoic acid Neo pentanoic acid	ExxonMobil Chemical	ExxonMobil neo acids exhibit high branched structures in which the carboxylic group is attached to a quaternary carbon atom. The high steric hindrance provided by the neo acid structure imparts excellent thermal and hydrolytic stability in derivatives and also helps make neo acids a superior building block for derivatives.
Alcohol	Exxal	ExxonMobil Chemical	The Exxal alcohols are branched, primary alcohols that contain both even- and odd-numbered hydrocarbon chains, ranging from C8 to C13.

### ADDITIVES FOR INDUSTRIAL LUBRICANTS

Compressor oils	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
Grease	ADDITIN® AO	Lanxess	Primary antioxidants that function as radical scavengers to stop the aging process before reaching a critical stage. Synergies can be achieved in combination with AW, CI and EP ADDITIN® grades. Typical uses are fluids for hydraulics, transmissions, turbines, compressors, engines but also special oils and greases.
	ADDITIN® AW	Lanxess	Phosphorus-based antiwear additives required for all types of lubricants such as hydraulic, transmission, compressor, engine and gear oils, metalworking fluids, greases. The wide range consists of both metal containing dithiophosphates as well as ashless specialties, completed by thermally stable carbamates (P-free).
	ADDITIN® CI	Lanxess	Corrosion inhibitors. Through adsorption on metal surfaces they form water-repellent, protective films which helps to prevent corrosion. Typical applications are rust preventive oils and all other types of lubricants like oils for compressors, engines, transmissions, turbines and gears, metalworking, and for greases.
	ADDITIN® EP	Lanxess	Low-odor and light-colored additives based on sulfur chemistry. The product meets the latest requirements of the lubricant oil industry in high-performance environments. Under extreme pressure conditions these additives react with metal surfaces to form protective films.

## ADDITIVES FOR INDUSTRIAL LUBRICANTS CONTINUED

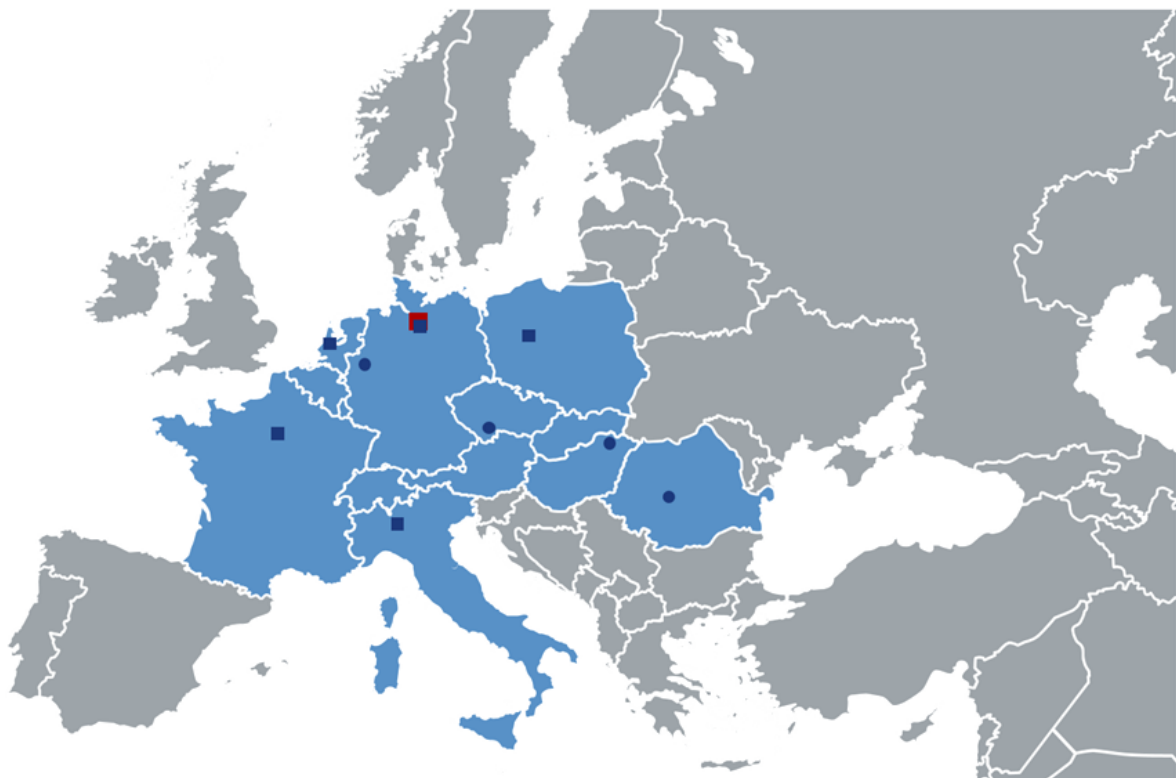
PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Grease	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
	ADDITIN® SP	Lanxess	Specialty products: Esters and polymers based on selected raw materials to op-timize affinity to different metal surfaces, such as stainless steel or aluminum. Deactivators for non-ferrous metals which also act as synergists to primary and secondary antioxidants.
Hydraulic fluids	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
Industrial gear oils	ADDITIN® AW	Lanxess	Phosphorus-based antiwear additives required for all types of lubricants such as hydraulic, transmission, compressor, engine and gear oils, metalworking fluids, greases. The wide range consists of both metal containing dithiophosphates as well as ashless specialties, completed by thermally stable carbamates (P-free).
	ADDITIN® EP	Lanxess	Low-odor and light-colored additives based on sulfur chemistry. The product meets the latest requirements of the lubricant oil industry in high-performance environments. Under extreme pressure conditions these additives react with metal surfaces to form protective films.
	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
Metal working fluids	ADDITIN® AW	Lanxess	Phosphorus-based antiwear additives required for all types of lubricants such as hydraulic, transmission, compressor, engine and gear oils, metalworking fluids, greases. The wide range consists of both metal containing dithiophosphates as well as ashless specialties, completed by thermally stable carbamates (P-free).
	ADDITIN® CI	Lanxess	Corrosion inhibitors. Through adsorption on metal surfaces they form water-repellent, protective films which helps to prevent corrosion. Typical applications are rust preventive oils and all other types of lubricants like oils for compressors, engines, transmissions, turbines and gears, metalworking, and for greases.
	ADDITIN® EP	Lanxess	Low-odor and light-colored additives based on sulfur chemistry. The product meets the latest requirements of the lubricant oil industry in high-performance environments. Under extreme pressure conditions these additives react with metal surfaces to form protective films.
	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
	ADDITIN® SP	Lanxess	Specialty products: Esters and polymers based on selected raw materials to op-timize affinity to different metal surfaces, such as stainless steel or aluminum. Deactivators for non-ferrous metals which also act as synergists to primary and secondary antioxidants.
	ADDITIN® WM	Lanxess	Water-miscible additives that optimize the performance of water-miscible metal-working fluids by enhancing lubricity and EP characteristics as well as corrosion protection. These products are typically chosen for e.g. water-miscible metal-working fluids, HFC fluids, water-based metal cleaners, anti-freeze.

## ADDITIVES FOR INDUSTRIAL LUBRICANTS

Turbine oils	ADDITIN® PA	Lanxess	Optimized mixtures of single components. These packages are complex and proven formulations, cutting development time while assuring high quality, reducing costs and complexity.
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### Product Disclaimer

- 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.
- 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.
- At all times our Conditions of Sale apply.
- Our product lists include dangerous goods. The correct marking of such goods is described in the respective datasheets.



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10/2018