



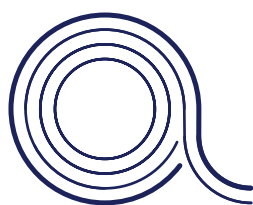
Product Range

Rubber

KRAHN

Your high-performance partner for specialty chemicals.

We are a leading independent chemical business providing sales, marketing and distribution services and recognized world-wide for our technical expertise and high-quality product portfolio as well as in-house laboratory support. Everything we do is with passion and commitment and always with an eye on the best possible outcome.



Rubber

Our locations

Thinking and acting global



KRAHN Subsidiaries

- | | |
|--|--|
|  Hamburg |  Athens |
|  Zaandam |  Gothenburg |
|  Milan and Berbenno |  Sandbach |
|  Poznań |  Aspe |
|  Avon |  Vienna |

Sales offices

- | |
|--|
|  České Budějovice |
|  Tiszaújváros |
|  Sibiu |
|  Shanghai |

Laboratories

- | |
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|  Bottrop |
|  Poznań |
|  Gothenburg |
|  Lainate and Berbenno |

Warehouses

Many warehouses across Europe, also with possibilities for bulk breaking

Synthetic Rubber

Product Group	Product Name	Producer	Product Description
ACM (acrylic rubber) HT-ACM (high-temperature acrylic rubber)	RACRESTER™	Osaka Soda	Vulcanizates containing ACM and especially HT-ACM are extremely resistant against heat and various media. Applications: turbo charger hoses, air intake hoses, power steering hoses, media and temperature resistant hoses, seals and membranes.
ACSM (alkylated chlorosulfonated polyethylene)	extos®	Tosoh	Vulcanizates containing ACSM have high resistance against oils and hot air as well as good weather resistance and good dynamic mechanical properties. Applications: belts, roll covers.
CPE (chlorinated polyethylene)	DAKREN™	Osaka Soda	Vulcanizates containing CPE have good ozone, oil and weather resistance as well as good resistance to heated air. Applications: cables, hoses, window profiles.
CR (chloroprene rubber)	Skyprene®	Tosoh	Vulcanizates containing CR have good mechanical properties. Additionally, they have very good resistance against oil, many aggressive chemicals and abrasion. Applications: conveyor belts, fuel, hydraulic and power steering hoses.
CSM (chlorosulfonated polyethylene)	TOSO-CSM®	Tosoh	Vulcanizates containing CSM have good flame suppression behavior. Furthermore, CSM vulcanizates offer good resistance against mineral oil. Applications: coated fabrics, hydraulic hoses, power steering hoses.
ECO (epichlorhydrin rubber)	EPICHLOMER™ EPION™	Osaka Soda	Vulcanizates containing ECO offer a well-balanced heat resistance, oil resistance and low-temperature flexibility. Furthermore, good resistance to ozone, low flammability and semi-conductivity is given. Applications: hoses for engines, industrial rolls, gas meter membranes.
EPDM (ethylene-propylene-diene-rubber)	Sumitomo EPDM	Sumitomo Chemical	Vulcanizates containing EPDM have excellent resistance to weather influences (e.g. UV radiation, ozone, heat and humidity) and they are mostly resistant to acid and bases. In addition, they have good low-temperature flexibility. Applications: cables, profiles, seals.

Plasticizers

Product Group	Product Name	Producer	Product Description
Adipates	Cereplas™ DIDA	Valtris Enterprises	Low volatile monomeric adipate ester-based on C10 branched alcohol. DIDA is providing good low-temperature flexibility, as well as providing low fogging.
	Cereplas™ DOA	Valtris Enterprises	Plasticizer to improve the flexibility at low temperature. Furthermore, it reduces viscosity with good dispersion properties. Food contact applications are possible.
	Cereplas™ DTDA	Valtris Enterprises	Lowest volatile monomeric adipate ester-based on C13 branched alcohol. DTDA provides good low-temperature flexibility and meets fogging requirements.
	Lincol 9	Eigenmann & Veronelli	Lincol 9, thanks to its low volatility, is used for rubber compounds either at low (– 50°C) or high temperature (+ 130°C). It is also resistant to extraction.
Benzoates	Jayflex™ MB 10	ExxonMobil Chemical	Benzoate-based plasticizer which is used as an alternative for critical short-chain esters.
Benzyl phthalates	Santicizer®	Valtris Specialty Chemicals	Phthalate-based plasticizers, combining the following properties: low volatility, excellent extraction resistance and good compatibility with a wide variety of resins.

Plasticizers

Product Group	Product Name	Producer	Product Description
Benzyl-phthalates/ Carboxylates	Santicizer PLATINUM®	Valtris Specialty Chemicals	Phthalate-free plasticizers which show high compatibility and efficiency, and performs with high permanence and low water solubility. Recommended for many applications like plastisols, foams, sealants, films, as well as calendered and extruded products.
Citrate	CRANE® Plast ATBC	KRAHN Chemie	Odorless plasticizer with excellent compatibility with PVC and a wide range of polymers and resins.
Ester	Lincol BAS-T	Eigenmann & Veronelli	Lincol BAS-T is a synthetic ester with no odor and a low acidity value, obtained by esterification of benzoic acid with a mixture of synthetic alcohols C12-C15 at very high linearity.
Hexanoates	OXSOFT® 3G8	OQ Chemicals	Specialty plasticizer with low viscosity, good UV stability, low volatility and migration. Furthermore, OXSOFT® 3G8 shows excellent results regarding low-temperature flexibility.
Phosphate ester	Santicizer®	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester-based materials are non-halogen with high plasticizing efficiency and great compatibility in multiple polymer systems.
Phthalates	ChemFlexx™ 911P	The Chemical Company	Low-volatility phthalate plasticizer based on linear C9 and C11 alcohols, due to their excellent weather resistance and good permanence particularly suitable for outdoor applications.
	Jayflex™ DIDP Jayflex™ DINP	ExxonMobil Chemical	High molecular standard plasticizers. Due to the branching of the alcohol chains, Jayflex™ DINP and DIDP have a high migration resistance and a low volatility.
	Jayflex™ DIUP	ExxonMobil Chemical	High molecular special plasticizer for rubber processing. Due to its low fogging values and high migration resistance, Jayflex™ DIUP is used in automotive applications, e.g. car interior.
	Jayflex™ DTD	ExxonMobil Chemical	Very high molecular special plasticizer for rubber processing. Due to its very high molecular weight and the outstanding low volatility, Jayflex™ DTD is recommended for high-temperature and high-voltage applications.
Polymeric adipates	CRANE® Plast 4000 Series	KRAHN Chemie	Polymeric plasticizers which provide outstanding migration and extraction resistance to petrol and mineral oils. Excellent plasticizers for oil resistant cable jacketing and hoses.
	Santicizer®	Valtris Specialty Chemicals	Polymeric plasticizers which provide outstanding migration and extraction resistance to petrol and mineral oils. Excellent plasticizers for oil resistant cable jacketing and hoses.
Sebacates	CRANE® Plast DBS	KRAHN Chemie	Monomeric sebacate ester-based on C5 branched alcohol. DBS provides outstanding low-temperature flexibility with low initial viscosity.
	Cereplas™ DOS	Valtris Enterprises	Special monomeric sebacate ester-based on C8 branched alcohol. DOS provides outstanding low-temperature flexibility and is primarily used in extreme low-temperature environment.
	Cereplas™ DIDS	Valtris Enterprises	This plasticizer combines good processing efficiency with superior low-temperature performance and low volatility. It is used for electrical insulation and high-frequency cable sheathing.

Plasticizers

Product Group	Product Name	Producer	Product Description
Specialty	Lincol 6	Eigenmann & Veronelli	Lincol 6 is a special plasticizer used in the rubber industry, designed to obtain highly resistant products and to give low-temperature flexibility to fuel hoses, wire jacketing and a wide range of molded and extruded products.
	Lincol BCF	Eigenmann & Veronelli	Lincol BCF (butyl carbitol formal) is a special plasticizer used in the rubber industry. Lincol BCF is designed to obtain highly resistant elastomers and to give low-temperature flexibility to a wide variety of molded and extruded products.
	Lincol BS	Eigenmann & Veronelli	Lincol BS is used in plastics as a non-opacifying lubricant and mold release agent for crystal-clear high-impact polystyrene and SAN, ABS injection molded articles, and as lubricant in acrylonitrile-butadiene polymers.
Terephthalates	Cereplas™ 100XS	Valtris Enterprises	Standard plasticizer, suitable for sensitive applications with direct food contact, as well as in the toy industry and for leisure products.
Trimellitates	Cereplas™ IDTM	Valtris Enterprises	Cereplas™ IDTM is a trimellitate ester of C10 alcohol, miscible with inert organic solvents but immiscible with water.
	Cereplas™ L8TM	Valtris Enterprises	This plasticizer is designed for use in flexible PVC applications where low-temperature flexibility is important. The low rates of migration of L8TM from PVC ensures long service life and is strongly recommended for low-fogging applications such as automotive internal trim.
	Cereplas™ L810TM	Valtris Enterprises	The low volatility, resistance to high temperatures, excellent low-temperature performance in conjunction with good electrical properties makes L810TM especially useful for PVC cable applications. The low fogging values and permanence make it ideally suited in formulating components for automotive internal trim. This product is also available as a stabilized grade.
	Cereplas™ OTM	Valtris Enterprises	This plasticizer is designed for use in flexible PVC applications where low volatility and resistance to high-temperature environments is required. The low migration rates of OTM from PVC ensure long service life. Cereplas™ OTM is strongly recommended for low-fogging applications. It is frequently used in the production of medical devices and is well-known as a perfect replacement for 2-ethyl-hexyl phthalate within the medical industry. This product is also available as a stabilized grade.
	Jayflex™ L9TM	ExxonMobil Chemical	This plasticizer offers excellent resistance to high temperatures, excellent low-temperature flexibility, better than branched trimellitates, excellent extraction/migration resistance, low migration into PU foam, superior fogging performance, low viscosity improves processability compared to branched C9 trimellitate and L9TM would help to meet automotive cable class C requirements (3000 h 125°C).

Bonding agents

Product Group	Product Name	Producer	Product Description
Bonding agents	Chemlok® Chemosil® Parlock™	Parker LORD	Bonding agents for the adhesion of many elastomers to practically all metals. The products show high adhesion strength and resistance against corrosion, high temperatures as well as oils and solvents.

Additives

Product Group	Product Name	Producer	Product Description
Accelerator	Daisonet P-152	Osaka Soda	Daisonet P-152 is an accelerator for ECO formulations.
Blowing agents	Unifoam AZ	Hebron	Azodicarbonamide is an exothermic blowing agent for fine-pored foams, e.g. insulation foams made from synthetic rubber. The pure ADC is available in various particle sizes ranging from 3.5 to 23 µm, both as standard and as low-dust Ultra series. For low-temperature applications, modified grades with kicker are also available.
Co-stabilizer	ESBO	Hebron	Epoxidized soybean oil is applied as a co-stabilizer because of its good heat resistance and as a secondary plasticizer for rubber, e.g. rubber mixtures for conveyor belts or other technical rubber parts.
Coupling agents	CABRUS™	Osaka Soda	CABRUS™ is a polysulfide-based coupling agent for linking rubber and silica. It can improve processability, mechanical properties, vulcanization rate, heat stability and shelf life.
Curing agent	Daisonet XL-21S	Osaka Soda	Daisonet XL-21S is a dithiocarbonate cross-linking system.
Inhibitor	Eastman™ MTBHQ	Eastman	MTBHQ (mono t-butyl hydroquinone) is used primarily as a retarder for peroxide-vulcanized compounds.
Metal soaps	Alugel®	Baerlocher	Aluminum di-/tri-stearates deliver good lubricating properties within rubber compounds.
	Ceasit	Baerlocher	Calcium stearates are mainly used as acid scavengers, release agents and lubricants in the rubber industry.
	Magnesiumstearat	Baerlocher	Magnesium stearates are used as lubricants and release agents for compounds and masterbatches. They also provide anti-tack and mold release properties in rubber applications.
	Natriumstearat	Baerlocher	Sodium stearates are used as anti-tacking agents for rubber.
	Zincum	Baerlocher	Zincum products are zinc stearates which are used as processing aids, lubricants or powdering agents. They can also serve as acid scavengers.

Pigments

Product Group	Product Name	Producer	Product Description
Inorganic pigments	Cappoxyt® Lysopac® Nubicem® Nubicoat® Nubicrom® Nubifer® Nubiflow® Nubiperf® Nubix® SMM	Vibrantz	Inorganic colored pigments for a wide range of rubber applications.
Organic pigments	Acetanil® Bonithol® Cappoxyt® Diacetanil® Eco-Lysopac® Lumiere® Lysopac® Lysopure® Naphthol Phthalo	Vibrantz	Organic colored pigments for a wide range of rubber applications.

Internal Processing Aids

Product Group	Product Name	Producer	Product Description
Activator	POLYPLASTOL 23	Eigenmann & Veronelli	POLYPLASTOL 23 is a 2-ethylhexanoate zinc salt on inorganic carrier acting as high-solubility activator for natural rubber. It is designed for use in natural rubber EV-soluble vulcanizing systems. It is especially useful in manufacturing of mounting bearing pads and anti-vibrating systems in general. It can be used for mastication of natural rubber like other soluble zinc soaps. It partially reduces the amount of stearic acid contained in a compound. It is used for maximum vulcanization homogeneity, to avoid crystallization while vulcanizing and to obtain good filler dispersion, to improve creep rate and compression set at low temperature and to improve mechanical characteristics and resistance to abrasion.
Dispersing agent	POLYPLASTOL 19	Eigenmann & Veronelli	POLYPLASTOL 19 is a processing aid for the extrusion of synthetic (NBR, SBR) and natural rubber. It is normally used during internal mixing to improve processing without influencing the physical properties. It is a dispersing agent and accelerates the incorporation of fillers during mixing. It also reduces the risk of scorches, prevents the sticking of compounds to rotors during calendaring and can be applied on peroxide curing systems as well.
Fatty acids-derived lubricants	POLYPLASTOL 6	Eigenmann & Veronelli	POLYPLASTOL 6 is a processing aid for natural and synthetic rubber. It is a zinc soap suitable for peptization of natural rubber. It can be effective at low temperature in the mastication stage of compounding. Its sulfur chelating effect on accelerators and its lubricant properties due to its long hydrocarbon chains make it suitable for usage with all polymers with exception of IIR, EPDM and halogenated rubbers. It also accelerates the incorporation of fillers, obtaining a shorter time for the mixing cycle. It does not give blooming effects. It is added at the beginning of the mixing cycle in the internal mixer.
	POLYPLASTOL 15	Eigenmann & Veronelli	POLYPLASTOL 15 is a blend of selected hydrocarbons and fatty acids. It is a highly effective additive used to avoid mold fouling problems connected to the use of processing aids. It is added during the mixing process to internal mixers and even to open mills. It acts both as internal lubricant during mixing and as superficial lubricant during molding, according to the different solubility and depending on the temperature. It is especially recommended for injection molding when very high temperatures are reached for a short time. The product performs well with NBR, SBR, and EPDM.
	POLYPLASTOL 16 BC	Eigenmann & Veronelli	POLYPLASTOL 16 BC is a blend of selected fatty acids and calcium soaps. Thanks to its lubricating properties, it is used in all the processes where there is a need to decrease the stickiness of compounds which are in contact with metal surfaces. It is mainly used for CR and EPDM rubber.
	POLYPLASTOL 42 B	Eigenmann & Veronelli	POLYPLASTOL 42 B is a processing additive suitable for all elastomer compounds, mainly EPDM. It has an outstanding lubricant effect and can improve processing by achieving the following effects: decrease of mooney viscosity, reduction of stickiness to the rotors of internal mixers and open mills, improvement of flow characteristics of compounds during injection molding, improvement of fillers' dispersion and good influence on batch uniformity. It also helps to avoid tears during demolding and minimizes mold fouling, even after a very long working time of the mold. It does not affect peroxide curing.

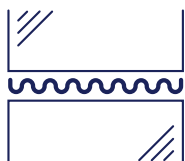
Internal Processing Aids

Product Group	Product Name	Producer	Product Description
Fatty acids-derived lubricants	POLYPLASTOL 51	Eigenmann & Veronelli	POLYPLASTOL 51 is a plasticizer and anti-adhesive agent. It is suitable for solving processability problems of EVA mixtures containing large amounts of fillers such as silica, aluminum hydrate and magnesium hydrate. It is used as a lubricant on rotors and in the extrusion process to reduce pressure without decreasing throughput. It may decrease crosslinking, this can be compensated by removing stearic acid from the formulation.

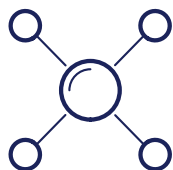
External Processing Aids

Product Group	Product Name	Producer	Product Description
Mold cleaners	Loctite® Frekote	Henkel	Mold cleaners for removing residues of release agents, finger prints and waxes. These products are used at a temperature of up to 40°C.
Mold release agents	Loctite® Frekote	Henkel	Solvent-based semi-permanent release agents with a high thermal stability for multiple releases of advanced composites (epoxy systems, polyester, vinyl ester) as well as for rotational molding. Depending on the product, a matt finish, satin finish or gloss finish of the molded part is possible.
	Loctite® Frekote C	Henkel	Water-based semi-permanent release agent with a high thermal stability for multiple releases of advanced composites (epoxy systems, polyester, vinyl ester). The product is applied at room temperature and can cure fast.
	Loctite® Frekote R	Henkel	Water-based semi-permanent release agents with a high thermal stability for multiple releases of rubber parts. There is no contamination of the molded part during the molding process.
	Bonderite®	Henkel	Tenside-based rubber release agent with corrosion inhibiting effect and high thermal stability.
Mold sealers	Loctite® Frekote	Henkel	Mold sealers which are easy to apply to seal molds with micro porosity and light surface blemishes. These products enhance the release advantages of Loctite® Frekote products.

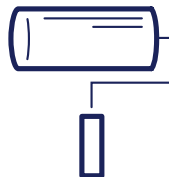
Markets



**Adhesives &
Sealants**



**Chemical
Intermediates**



Coatings



Construction



**Heat Transfer
Fluids**



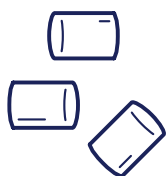
**Industrial Cleaning &
Home Care**



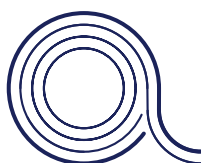
**Lubricants &
Fuels**



**Personal
Care**



Plastics



Rubber

Product Disclaimer

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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
designed to create strong
added value: markets with
innovations, processors with
producers and questions
with answers.

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