



Product Range

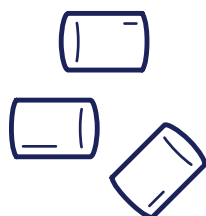
Plastics

Thermosets

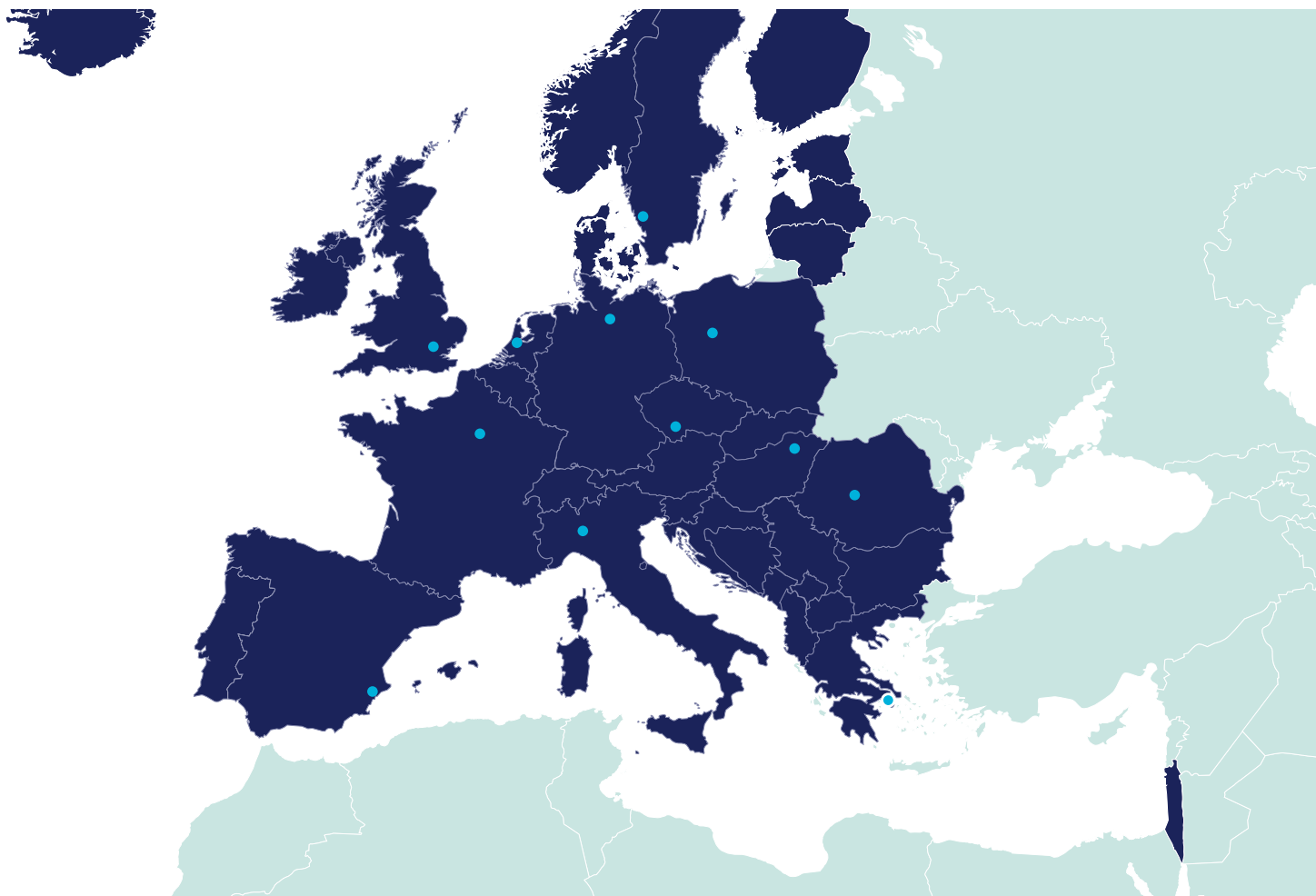


Your high-performance partner for specialty chemicals.

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.



Plastics



Performance Additives

Product Group	Product Name	Producer	Product Description
Rheology Additives	RHEOBYK® and GARAMITE	BYK-Chemie	A full range of liquid and powered rheology additives to increase the thixotropy, storage stability and sag resistance.
Surface Additives	BYK and BYK-S	BYK-Chemie	Surface additives for improving leveling, reducing emission.
Defoamers and Air Release Additives	BYK and BYK-A	BYK-Chemie	Silicone and silicone-free defoamers and de-aerator for epoxy, UP and PUR systems.
Processing Additives	BYK-P	BYK-Chemie	Processing additives for UP, vinylesters, epoxy and polyurethane systems.
Adhesion Promoters and Coupling Agents	BYK-C	BYK-Chemie	Polymeric coupling agents for radically curable, epoxy and acrylate systems.
Wetting and Dispersing Additives	BYK-W and DISPERBYK®	BYK-Chemie	Additive for optimal pigment wetting and dispersion, in order to achieve higher color strength and to avoid agglomeration of organic and inorganic pigments.
Nano Technologies	NYACOL®	NYACOL® Nano Technologies, Inc.	Nyacol offers one of the most diverse product lines in the field: inorganic materials include alumina, antimony pentoxide, ceria, silica, yttria, zirconia, tin oxide, zinc oxide, and titania. Nyacol offers sub-200-nanometer (nm) metal oxide materials as water-based colloidal sols, hydrocarbon-based colloidal dispersions, fine-particle powders, polymer concentrates and dispersions.
Antistatic Agents	LOXIOL®	Emery Oleochemicals	Esters that prevent dust accumulation and minimize the handling problems and risks associated with static charge. Applications: packaging, flooring and sensitive electronic components.
Release Agent	LOXIOL®	Emery Oleochemicals	Esters that migrate to the interface of polymer and processing machine, depending on the particular level of compatibility with the polymer matrix.

Functional Additives

Product Group	Product Name	Producer	Product Description
Antioxidants (AOs)	SONGNOX® CS	SONGWON	AOs prevent thermally induced degradation of polymers during high-temperature processing, curing and stoving as well as in end use.
UV Absorbers (UVAs)	SONGSORB® CS	SONGWON	UVAs prevent the degradation of coating systems by converting the absorbed light into heat.
Hindered Amine Light Stabilizers (HALS)	SONGSORB® CS	SONGWON	HALS are radical scavengers that trap radicals formed in the coating or sealant layer during exposure to light.
Phosphites	Lankromark™ LE	Valtris Specialty Chemicals	Valtris is a key producer of liquid phosphites which are used in applications ranging from polyurethanes to block copolymer and esters resin color protection. Valtris have developed the chemistry for producing 100% phenol-free phosphites.

Chemical Intermediates

Product Group	Product Name	Producer	Product Description
Diols	1,2-Butylene Glycol / 1,2-Butanediol	Mitsubishi Chemical Corporation	1,2-Butylene glycol is a low toxic branched diol which has a primary hydroxyl group and a secondary hydroxyl group on adjacent carbon atoms.
	EH Diol	Gulf Chemical International	2-Ethyl-1,3-hexanediol, chain extender, modifier for PU systems.
Polyglycols	PTMG	Mitsubishi Chemical Corporation	PTMG is a linear polyether glycol with primary hydroxyl groups at both ends. It easily reacts with isocyanates compounds (e.g. MDI, TDI), and generates polymers with the superior characteristic.
	BIO-PTMG	Mitsubishi Chemical Corporation	BioPTMG is a new environmentally friendly product that is manufactured from plant-derived raw material. Bio based ratio more than 95%.
Polyols	Poly-carbonate-diol	Mitsubishi Chemical Corporation	Polycarbonatediol(PCD) is a linear polycarbonate with hydroxyl groups at both ends. It easily reacts with isocyanate compounds, and generate polymers with characteristics such as durability and chemical/hydrolysis resistance. BENEBIOL™ is the world's only biomass-based PCD.
	PolyEther PolyCarbonateDiol	Mitsubishi Chemical Corporation	PEPCD is a linear polyetherpolycarbonatediol with hydroxy groups at both ends. PEPCD is a liquid polyol and easy to handle, while keeping the same flexibility and low Tg as PTMG in its application.

Chemical Intermediates

Product Group	Product Name	Producer	Product Description
Polymeric Building Blocks	EMEROX	Emery Oleochemicals	Azelaic acid derived from renewable sources. It is used in formulation of high molecular weight polymers. Applications: nylon engineering plastics and fibers, polyester films and adhesives, urethane elastomers and elastomeric fibers.
Carboxylic Acids	Exxal	Exxon Mobil Chemical	Neopentanoic Acid and Neodecanoic Acid-Versatic acid.
Oxo - Alcohols	Exxal	Exxon Mobil Chemical	Oxo mono – alcohols from C8-C13.
Curing Agents	Ketjenflex® CP	Axcentive	KETJENFLEX® CP is para-toluene sulfonic acid monohydrate, a chemical used in various applications like acid catalyst in resins systems, curing agent for melamine resins and dehydration catalyst in esterification reactions.
Curing Agents	Tinstab BL 277	Valtris Specialty Chemicals	Tin catalysts used in the production of polyurethane and silicone formulations.

Flame Retardants

Product Group	Product Name	Producer	Product Description
Phosphates	Santicizer®	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. Phosphate ester based materials are halogen-free with high plasticizing efficiency, great compatibility in multiple polymer systems and fast fusion in PVC applications.
APP	FR CROS®	Budenheim	Charring initiator, available also in coated version. It can be used in several applications: intumescent coating, PU, polyester, epoxy, textiles.
Borates and Stannate	Zinflamm®	SCL Larderello	Zinflamm are used in plastic industry as flame retardant for improving the smoke density in halogen and halogen free formulation.
Antimony Trioxide	Triox and Polytriox	PCDL Lucette	This product, available in powder or in masterbatch, is intended for applications particularly demanding in terms of flame retardancy.
Magnesium Hydroxide	HYDROFY	NUOVA SIMA	High purity Magnesium Hydroxide, used like flame retardant in Thermoplastic, Thermosetting and Rubber compound. Available also in coated version.
ATH	ALUPREM®	TP&T TOR MINERALS	Specialty Aluminum Hydroxides available in uncoated and coated version. It can be used also as ultra white filler, for obtaining high brightness and translucency.
Aluminum Oxidehydrate	ALUPREM® SR 100 MES	TP&T TOR MINERALS	This product is used as flame retardant synergist (char promoting filler and smoke suppressant) in halogen free system. It improves the mechanical properties and scratch resistance of compounds.
Smoke Suppressant	BUDIT® T 34	Budenheim	Additive based on Zinc-II-pyrophosphate that can be incorporated in polymers to improve the smoke density.

Plasticizers

Product Group	Product Name	Producer	Product Description
Fast Fusing Plasticizers	Santicizer® Platinum P	Valtris Specialty Chemicals	Phthalates-free fast fusing plasticizers with low volatility, excellent extraction resistance and high efficiency attaining performance properties that are similar to phthalate plasticizers.
Benzyl Phthalates	Santicizer®	Valtris Specialty Chemicals	Benzyl Phthalate plasticizers are designed for very high compatibility and high solvating character. Thanks to their high molecular weight they are low volatility plasticizers and guarantee high performance and permanence.
Phosphate Ester	Santicizer®	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester based materials are nonhalogen with high plasticizing efficiency, great compatibility and high permanence.
High Molecular Weight Phthalates	Jayflex™	ExxonMobil Chemical	High molecular Phthalate plasticizers for PVC processing. Due to the branching of the alcohol chains Jayflex™ has a high migration resistance and low volatility.
Monobenzoate	Jayflex™ MB 10	ExxonMobil Chemical	Low viscous plasticizer with favorable gelation properties providing a low constant paste viscosity and a comparatively low volatility. Also compatible in combination with other standard plasticizers.

Plasticizers

Product Group	Product Name	Producer	Product Description
Trimellitates	Cereplas™	Valtris Specialty Chemicals	Highly permanent plasticizer particularly suitable for high temperatures. Extremely low volatility, excellent resistance against chemicals, low fogging and good processability.
Polymeric	Santicizer®	Valtris Specialty Chemicals	Polymeric polyadipate plasticizers which provides outstanding migration and extraction resistance.
	Edenol™	Emery Oleochemicals	Polymeric plasticizers which provide outstanding migration and extraction resistance. Various viscosities, as well as grades with indirect food contact approval are available.
Adipates	Cereplas™	Valtris Specialty Chemicals	Adipate plasticizers based on branched alcohols from C8 to C13 to improve the flexibility at low temperature.
Bio-Based	Santicizer® Platinum G	Valtris Specialty Chemicals	Efficient bio-based (85%) primary plasticizer that offers excellent heat stability, enhanced processability, and low volatility.
Expoxidized Natural Oils	Lankroflex™	Valtris Specialty Chemicals	Secondary plasticizers, co-stabilizers and acid scavengers which add flexibility and extend the lifetime of polymers.
Special Plasticizers for Thermoset	Ketjenflex® 8 and 9s	Axcentive	Ketjenflex® 8 and 9s are successfully used as a plasticizer for melamine and various other resins. It improves the stability, flexibility and the flow properties of these resins.
Citrates	Ketjenflex®12	Axcentive	KETJENFLEX® 12 is a high performance citric acid ester plasticizer. With its favourable toxicological and ecotoxicological profile KETJENFLEX® 12 is a perfect alternative for phthalate plasticizers in applications where exposure is a concern.

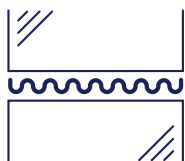
Functional Fillers

Product Group	Product Name	Producer	Product Description
Aluminum Oxihydrate	TOR BRITE	TP&T TOR MINERALS	TOR BRITE offers exceptional brightness/whiteness as a TiO2 synergist in applications including Paints & Coatings, Solid Surface, Engineered Stone and Gel Coats. TOR BRITE improves scratch resistance in Coatings and Solid Surface.
Calcium Carbonate	Mikhart, Calatem, Criscal	Provencale	Natural grounded Calcium Carbonate, also available in high purity and brightness.
	PRECARB®	Schaefer Kalk	Precipitated calcium carbonate (Calcite or Aragonite), it can be used as extender for titanium dioxide.
Lime and calcium oxide	PRECAL	Schaefer Kalk	Hydrated lime for the production of superior quality lime paints thanks to its remarkable whiteness and very fine granulometry. It imparts excellent workability to the finished product.
Neuburg Silicas	SILLITIN and AKTISIL	Hoffmann Mineral	Neuburg siliceous earths are the result of a natural combination of corpuscular, cryptocrystalline and amorphous silica and lamellar kaolinite for coatings and adhesives. This filler is, in the case of Aktisil, treated with special additives to give particular characteristics.
	SILFIT	Hoffmann Mineral	Silfit are siliceous earths of Neuburg Product subjected to a calcination to have superior characteristics such as white point.
	AKTIFIT	Hoffmann Mineral	Aktifit are siliceous earths from Neuburg subjected to calcination and a post-surface treatment to give particular characteristics.
Lightening Fillers	GLOXIL	Hoffmann Mineral	GLOXIL is a micro hollow glass sphere whose surface has been modified with a special methacrylic functional group. The methacrylic groups of GLOXIL provide good wetting and very good dispersion in the polymer.
	SIL-32	Silbrico	Lightening fillers to impart thermal and acoustic insulation characteristics. Sil-32 also leads to a decrease in specific weight with consequent lightening of the finished product.
Zeolites	Purmol®	Zeochem	PURMOL® is a hydrophilic molecular sieve supplied in powder. It provides the optimum solution for the removal of water traces.
Aerogel	QUARTZENE	Svenska Aerogel	Obtained with a modern and ecological production process, Quartzene is an extremely light and porous material; used as a raw material it increases the parameters of thermal, acoustic and fire resistance insulation. It is used in construction chemicals, paints, varnishes, plastics, paper and textiles. The product is sold in the form of hydrophilic or hydrophobic granules of various particle sizes. Thanks to their unique properties, aerogel-based materials support the realization of sustainable development goals, including the reduction of CO2 consumption.
	HI-SIL® and SILENE™	PPG Industries	HI-SIL® / SILENE™ – are a full range of synthetic amorphous precipitated silica products.
Reinforcing Silicas	AGILON®	PPG Industries	PPG AGILON® performance silica products are in a single finished product a high performance precipitated synthetic silica combined with a silane.
Micronised Silicas	LO-VEL™	PPG Industries	LO-VEL™ matting agents comprise a comprehensive line of synthetic amorphous precipitated silica products that reduce the gloss. Available as wax-treated and non-treated products.

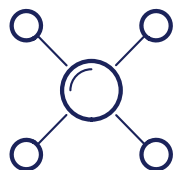
Pigments and Colors

Product Group	Product Name	Producer	Product Description
Organic Pigments	CINQUASIA®	Sun Chemical	Orgnic High Performance Quinacridone pigments.
	CROMOPHTAL®	Sun Chemical	Organic High Performance Yellow, Red and Violet pigments.
	FANCHON®	Sun Chemical	Organic High performance Yellow and Orange pigments.
	FASTOGEN® Magenta	Sun Chemical	Orgnic High Performance Quinacridone pigments.
	FASTOGEN® Blue and green	Sun Chemical	Phthalocyanine Blue and Green pigments.
	HELIOGEN®	Sun Chemical	Phthalocyanine Blue and Green pigments.
	INDOFAST®	Sun Chemical	Organic High Performance Carbazole Violet pigments.
	IRGALITE®	Sun Chemical	Organic classical Azo Yellow, Orange, Red and Violet pigments.
	IRGAZIN YELLOW	Sun Chemical	Organic High performance Yellow pigments.
	IRGAZIN® ORANGE - RED	Sun Chemical	Organic High performance DPP red and Orange pigments.
	PALIOGEN®	Sun Chemical	Organic High performance Perylen Red and Indanthrone Blue pigments.
	PALIOTAN®	Sun Chemical	Hybrid pigments based on organic and inorganic high performance pigments for the coating industries.
	PALIOTOL®	Sun Chemical	Organic High performance Yellow and Orange pigments.
	SPECTRASENSE®	Sun Chemical	Organic High performance Perylen Black for Heat Management.
	SUNBRITE®	Sun Chemical	Organic classical Azo Yellow, Orange, Red and Violet pigments.
	SUNFAST®	Sun Chemical	Phthalocyanine Blue and Green pigments.
Pigment preparations	MICROLEN® MCN	Sun Chemical	Pigment Preparation for polyolefine, rubber and selected engineering plastics.
	PREDISOL® PE	Sun Chemical	Finely pre-dispersed, non-dusting pigment preparation for coatings with high transparency based on high performance pigments.
	SunMICA® FUSE	Sun Chemical	Pearlescent mica preparations for sensitive applications.
	DF 70	Sun Chemical	Pearlescent mica preparations for sensitive applications.
Pearlescent pigments	FIREMIST®	Sun Chemical	Glass-Based pearlescent Effects.
	GLACIER®	Sun Chemical	Pearlescent Effects based on synthetic Micas.
	LUMINA®	Sun Chemical	Pearlescent Micas with high chroma.
	MAGNAPEARL®	Sun Chemical	Natural pearlescent Silver and White Micas.
	MEARLIN®	Sun Chemical	Natural pearlescent Micas.
	SunGEM XST	Sun Chemical	Glass-Based pearlescent Effects.
	SunMICA	Sun Chemical	Natural pearlescent Micas.
	SunMICA LUX®	Sun Chemical	Pearlescent Effects based on synthetic Micas.
Dyes	ORACET®	Sun Chemical	High-purity solvent dyes for Plastic application.
Inorganics	SICOPAL®	Sun Chemical	Inorganic pigments based on various metal oxide and Bi Va.
	SICOTAN®	Sun Chemical	Nichel and Nichel-Chrome complex titanate pigments.
	SICOTRANS®	Sun Chemical	Transparent iron oxide for coating and plastic applications.
Aluminium	Benda-Lufz®	Sun Chemical	Wide range of metallic powder and paste.

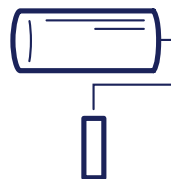
Markets



**Adhesives &
Sealants**



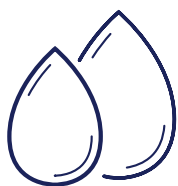
**Chemical
Intermediates**



Coatings



Construction



**Fuels &
Lubricants**



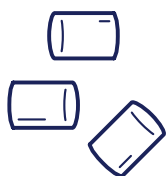
**Heat Transfer
Fluids**



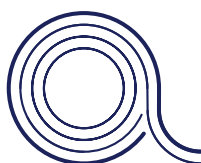
**Industrial Cleaning &
Home Care**



**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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