



## Special arrangements...



**...our normal performance !**

Marketing • Distribution • Service





## **We are distributor/agent of raw materials for**

- \* plastics industry
- \* rubber industry
- \* adhesives and sealant industry
- \* coating industry
- \* textile industry
- \* and related industries

Our QM-System is certified according to EN ISO 9001:2008.

In particular we are supplying additives and technical service in close co-operation with the principals represented in the market.

## **Our Product-List** includes among others standard additives and specialties such as

- \* flame retardants
- \* processing aids based on fatty acid esters, dispersion aids, and impact modifiers
- \* functional filler (barium sulfate, talc, aluminium trihydrate)
- \* glassfiber-products
- \* plasticisers
- \* chemical blowing agents
- \* light stabilisers, antioxidants, metal deactivators, nucleating agents and optical brighteners
- \* waxes, lubricants, slip- and antiblock agents
- \* chlorinated polyethylene (CPE)

## FLAME RETARDANTS

<b>Reflamal S ...</b>	aluminium hydroxide	Ground aluminium hydroxide standard-grades as flame retardant filler for thermosets and rubber in different particle sizes.
<b>Addforce FR ...</b>	coated aluminium hydroxide	Surface treated ground aluminium hydroxide for improved processing and surface properties of the end products.
<b>WTH-ChemFR...</b>	magnesium hydroxide	Precipitated magnesium hydroxide surface treated fine powder to be used as a non halogen flame retardant filler for polymers, in particular polyolefines and polyamides.
<b>Addforce FR APP ... Addforce FR IFR</b>	ammonium polyphosphate	Non-halogen flame-retardant, intumesces when exposed to the flame as the material decomposes and forms a heat-insulating char layer. For coatings and plastics to be processed at low/medium temperatures such as polyolefin's etc.).
<b>Masteret</b>	red phosphorus based concentrates	Red phosphorus based concentrates with 50 to 70% active ingredient in a wide range of organic polymeric carriers for easy handling, good plant hygiene, health and safety. These are not flammable products and as safe as the host polymer. Halogen free flame retardant for plastics and rubbers (i.e. polyolefins; nylon, PBT, epoxies etc.), in particular for glass fiber reinforced polyamides.
<b>Melagard</b>	melamine derivatives	Halogen free flame retardants based on melamine (M-cyanurate, M-phosphate, M-borate) for flame retarding and smoke suppressant of both filled and unfilled polymers (plastics and rubbers). Melaminborate is also known as effective replacement of antimony trioxide in PVC both as synergist and smoke suppressant.
<b>Phoslite</b>	phosphinates	New generation of highly efficient inorganic flame retardants based on phosphor for engineering plastics such as PP, TPO or PS, PC, PC/ABS, PBT and PA (nylon). These products can be used depending on the required standards either alone or in combination with conventional flame retardant products.
<b>Addforce Mod ...</b>	chlorinated polyethylene (CPE)	Due to its high chlorine-content chlorinated polyethylene resins are also suitable dispenser for flame retarding plastics. Chlorinated polyethylene resins are accessible to fillers, weathering and migration resistant.
<b>Addforce FR ...</b>	melamine	Component to enable forming an insulating protective layer on the substrate against heat in intumescent coatings/paints formulation.
<b>Addforce FR MPP Addforce FR MPY</b>	melamine derivatives	Halogen free flame retardants based on melamine for flame retarding and smoke suppressant of both filled and unfilled polymers (plastics and rubbers).
<b>Addforce FR EG ...</b>	expandable graphite	Flame retardant additive for various polymers and applications such as PU-foams for sealings, polyolefines, roofing sheets etc.
<b>Addforce FR CU ... Addforce FR CT ...</b>	cyclic phosphonates	Flame retardant additive for textiles.
<b>Addforce FR CP</b>	phosphate	Flame retardant additive for textiles.
<b>Addforce FR Penta ...</b>	micronized pentaerythritol micronized dipentaerythritol	Used as 'charformer' in intumescent flame retardant polymer systems.
<b>WTH-...</b>	phosphate esters	Group of different flame retardant plasticizers for production of flexible products such as cables, wire jackets etc.





## Product List (cont'd)

### FUNCTIONAL FILLER

<b>Baser BB ...</b>	barites (barium sulphate)	Ground high purity and white natural barium sulphate for making polymers sound absorbing or heavier, available in different particle sizes. Due to its high purity it gives good thermal stability of the filled compounds.
<b>Addforce Talc ...</b>	magnesium-silicate-hydrate	Fine ground, extremely plate shaped, extremely white and pure for modifying plastics (e.g. PP etc). Available in different particle-size distributions and purities. Also available in compacted versions with higher bulk-density for easier/faster processing.

### MODIFIERS/PROCESSING AIDS

<b>Addforce Mod ...</b>	chlorinated polyethylene (CPE)	Impact modifier for PVC with ~36% Cl-content, other Cl-contents or tailor-made products available subject to larger quantities. Also grades with improved flow-properties for bulk handling available.
<b>Addforce Mod ...</b>	acrylic based modifier	Various processing aids and impact modifiers with different molecular weights for optimum performance both in processing as well as to improve the physical and technical properties of the finished PVC products for both indoor and outdoor use. Standard products and specialties for high quality foamed PVC-U and PVC-U end products.
<b>Plastaid</b>	fatty acid derivatives	Wax like fatty acid derivatives having unique chemical/molecular structure used to modify flow and release behaviour of filled thermoplastics, rubber and thermosets like with ATH filled FR EVA, talc filled PP, filled EPDM etc. Also suitable for processing temperatures >220 °C. The product is also efficient as processing aid supporting homogenising effect of polymer alloys/blends.





## Product List (cont'd)

### PLASTICIZERS

<b>WTH-Ester ...</b>	benzoate plasticizer	Safe plasticizer for plasticising PVC, rubber, sealants etc.
<b>WTH-...</b>	phosphate esters plasticisers	Group of different flame retardant plasticizers for production of flexible products such as cables, wire jackets etc. Plasticisers based on different chemistry.

### REINFORCEMENTS/GLASSFIBERS

<b>CTG-Roving ...</b>	E-glass rovings	Different types of rovings from 300 to 4800tex and sizings for the final end-uses available. Directrovings are usually processed in pultrusion, winding, weaving processes for production of bars, tanks, pipes or fabrics. Conventional rovings are available in different qualities from 1200 up to 4800tex and sizings depending on end-use for excellent processing properties.
<b>CTG-Woven Roving ...</b>	E- glass woven roving	E-glass woven roving is a glass fabric woven from direct roving. Area weights of 300, 400, 500, 570 und 800 g/sqm are available.
<b>WTH-CSM ... CTG-EMC ... CTG-EMCL ...</b>	chopped strands mat	E-glass chopped strands mat is made of fiberglass chopped strands of 50mm fiber length with powder binder or emulsion binder and unique area weights. 'WTH-CSM' mats are available in different unit weights (100 – 900 g/sqm) and roll widths (Standard-width = 1270 mm).
<b>CTG-Glassmats ...</b>	EMK-mats	E-glass knit mat is made from chopped fiberglass strands randomly dispersed and laid on a roving matrix and knitted together with organics fibers.
<b>WTH-Glassmats ...</b>	non-woven glass mat (45-250 g/m <sup>2</sup> )	Non-woven glassfiber mats to be used as substrate for production of roofing mats. The product is available in all commonly used widths and with or without reinforcement fibers. There are several grades with different area weights (45 to 250 g/sqm) and width available.
<b>WTH-Polyestermats ...</b>	non-woven polyester mats (45-250 g/m <sup>2</sup> )	Non-woven glassfiber mats to be used as substrate for production of roofing mats. The product is available in all commonly used widths and with or without reinforcement fibers. There are several grades with different area weights 45 to 250 g/sqm) and width available.
<b>WTH-Steelfibers ...</b>	stainless steel fibers	For production of heavy duty compounds showing superior abrasion resistance and/or good electric conductivity or for electro-magnetic shielding (EMI/EMV). Also available as masterbatch/granules.

### POLYMERS

<b>Addforce Mod ...</b>	chlorinated polyethylene	Standard material with typical 36% Cl-content, good rheological properties esp. when resistance against acids or oils required or high filled and for injection-moulding process i.e. for pipes/hoses, gaskets, bellows etc.
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## Product List (cont'd)

### OTHER ADDITIVES

<b>Finalux ...</b>	lubricants	Different lubricants (i.e. oleo chemical derivatives, ester waxderivatives, Fischer-Tropsch-Wax etc.) and lubricating compounds (internal and/or external lubricating effects) focuses in PVC, plastics, engineering plastics, rubber etc.
<b>Finawax C Palmowax ...</b>	EBS-wax	Versatile, multi-purpose lubricant with internal/external lubricating effects, also available with reduced acid values for sensitive polymers such as POM. Also used as mould-release in rubber and engineering plastics or flow improver/slip agent in polyolefins.
<b>Finawax E / O / S / B Addforce SA ...</b>	erucamide, oleamide, stearamide, behenamide	Lubricant, slip and antiblock additives for polyolefins, mould release agent for rubber-applications, dispersion-aid for pigments in printing inks etc.
<b>Finawax SS / SE</b>	stearyl stearamide / stearyl erucamide	Secondary fatty acid amides with high heat stability for better processing of engineering plastics.
<b>Finastat ... Addforce AS ...</b>	Antistatics	Different antistatic additives to be compounded into the polymer to reduce electrostatic charging of plastics surfaces..
<b>Cellopren ... Forcell ...</b>	chemical blowing agent blowing agent preparations	Endothermic and/or exothermic chemical blowing agents as best composition of different blowing agents for best performing products available in various grades for different processing temperatures/gas-expansion etc for foaming plastics, also for injection-moulding and extrusion process. The product is available as powder, granules or paste.
<b>WTH-Chemnox AN ...</b>	antioxidants	Different antioxidants for polymers based on steric hindered phenols and solid organic phosphites to protect polymers against degradation (thermo oxidative, chemical etc.).
<b>WTH-Chemclear ...</b>	clarifier-/nucleating agents	Highly effective clarifier/nucleating additives to improve transparency of PP-films etc.
<b>WTH-Chemstab LS ... WTH-Chemsorb ...</b>	light-stabilisers UV-light absorbers	Different line of light stabilisers (e.g. benzophenones - benzotriazoles, HALS) for plastics and rubber.
<b>WTH-Aufheller ... WTH-ChemOpt ...</b>	optical brightener	Fluorescent optical brightener to improve whiteness and/or for brilliant colours in plastics, fibers, coatings, inks etc.
<b>WTH-Aufheller CBS-X</b>	optical brightener	Fluorescent optical brightener for detergents etc.
<b>WTH-Chemnox MD ...</b>	metal deactivator	Different metal deactivators of high purity in particular for use in polyolefinic cable compounds.
<b>Addforce FR Penta ...</b>	micronized pentaerythritol micronized dipentaerythritol	Used as 'charformer' in intumescent flame retardant polymer systems.

### MISCELLANEOUS

<b>Addforce Lub ...</b>	molybdenum disulfides	Heavy duty high performance lubricants for engineering plastics also available as masterbatch.
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