



Baerlocher Additives
**Reach out for
the Future**

we add character to plastics

BÆRLOCHER





we add character to plastics

The Baerlocher Group of Companies is one of the world's leading suppliers of additives for the plastics industry with a strong focus on PVC.

Baerlocher has extensive technology and market know-how drawn from more than 190 years of company history.

Additives play a crucial role in determining processing properties as well as product quality and character. Baerlocher offers a broad range of additives for polymers suitable for various industries.

Baerlocher is your global partner for Ca-based solutions and metal soaps.

By developing and supplying innovative additives, Baerlocher enables the plastics industry worldwide to manufacture high-quality and sustainable products.

www.baerlocher.com



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Future success starts today

Never before has the plastics industry undergone a period of such important changes as we face today. Driven by a variety of industry initiatives and legal directives as well as dramatic price increases and shortages of raw materials, the plastics industry has to develop innovative, sustainable and efficient products to optimize production processes. Baerlocher is well prepared for these challenges and thus a competent, reliable partner for the industry. Baerlocher makes continuous significant R & D efforts to explore which raw materials are best suited in terms of application, end-use, environment and sustainability.

Reach out for the customer

The Baerlocher Group of Companies is present with 14 production plants in all major regions. For Baerlocher it is essential to think global and to act local. This enables a close relationship to customers worldwide as well as the availability of the same product quality on a global basis.

Reach out for new products

Based on its extensive knowledge in terms of technology and global markets Baerlocher continuously develops innovative products according to the needs of the industry. Baerlocher offers products that comply with the current status of directives like REACH in the European Union or other regional regulations. Based on the close partnership with the customers all products can be tailored to meet individual requirements.

Reach out for expertise

Baerlocher is very well known for its expert knowledge in all aspects of the additive business and technology. This enables Baerlocher to support the customers' day-to-day-business in close partnership, but also in managing the challenges set by change processes in terms of new directives, industry initiatives and the strong need for innovative and sustainable products.

Reach out for the future

The Baerlocher Group of Companies continuously redefines processes and increases capacities to reflect the vibrant change the industry will have to address especially in this decade driven by various industry and legal directives. In addition Baerlocher executes a sound raw material management to ensure availability. By all these activities Baerlocher creates a strong basis that customers can rely on.

Reach out for the industry

Baerlocher is totally committed to support the plastics industries by active participation in all relevant industrial associations. As one of the key players in the PVC industry and as a leading innovator in the field of Ca-based PVC additives Baerlocher actively supports the objectives of VinylPlus.

Reach out for the partners & employees

Respect, integrity and excellence form Baerlocher's value system and define the character of the Baerlocher Group of Companies. Baerlocher's corporate philosophy is characterized by quality, innovation and customer service, and is put into practice every day by Baerlochers dedicated staff.

Baerlocher products

BAEROPAN **BAEROCID**
BAEROSTAB **BAEROCIN**
BAEROPOL **CEASIT**
BAEROLUB **ZINCUM**
BAEROPHOB

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Baerlocher worldwide

Fourteen production sites in Germany, United Kingdom, Italy, France, Turkey, the United States, China, Malaysia, India, Brazil, Peru and Argentina as well as a worldwide sales network make the Baerlocher group of companies a strong partner. This global presence and more than 1200 employees worldwide make sure that we are always close to the customer. Future-oriented, we are continuously investing in research and development. Our innovative power results from the creativity of our in-house scientists and technical experts. Baerlocher has R&D facilities all over the world.





Headquarters

Baerlocher GmbH
Unterschleissheim

Germany Baerlocher GmbH Lingen	<ul style="list-style-type: none"> · Ca-based stabilizers · Stearates · BAEROPOL · Fatty Acids 	<ul style="list-style-type: none"> · Glycerine · Hydrophobic agents
Italy Baerlocher Italy S.p.A. , Lodi SO.G.I.S. S.p.A. , Cremona	<ul style="list-style-type: none"> · Sn stabilizers · Liquid Mixed Metal stabilizers · Lubricants 	<ul style="list-style-type: none"> · Stearates · Fatty Acids · Glycerine · Fatty Acid Derivatives
United Kingdom Baerlocher UK Ltd. Bury	<ul style="list-style-type: none"> · Ca-based stabilizers 	
France Baerlocher France SAS Marseille	<ul style="list-style-type: none"> · Waxes · Lubricants · Solid Sn-based one-packs 	
Turkey Baerlocher Kimya SaN. Ve Tic. Ltd. Şti Akhisar	<ul style="list-style-type: none"> · Ca-based stabilizers one-packs · Pb one-packs 	
Malaysia Baerlocher (M) Sdn Bhd Seremban	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb one-packs 	<ul style="list-style-type: none"> · Stearates · BAEROPOL
India Baerlocher India Additives Pvt. Ltd. Dewas	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb stabilizers and one-packs 	<ul style="list-style-type: none"> · Liquid Mixed Metal stabilizers
China Baerlocher Plastic Additives (Jiangsu), LTD Changzou	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb one-packs 	
USA Baerlocher Production USA LLC , Cincinnati Baerlocher USA LLC , Dover	<ul style="list-style-type: none"> · Ca-based stabilizers · Liquid Mixed Metal stabilizers 	<ul style="list-style-type: none"> · Stearates · BAEROPOL
Peru Compania Quimica SA Lima	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb stabilizers and one-packs 	<ul style="list-style-type: none"> · Liquid Mixed Metal stabilizers · Plasticizer
Brazil Baerlocher do Brasil SA Americana	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb one-packs · Liquid Mixed Metal stabilizers 	<ul style="list-style-type: none"> · Stearates · BAEROPOL · Fatty Acids
Argentina Lestar Quimica SA Junín	<ul style="list-style-type: none"> · Ca-based stabilizers · Pb one-packs · ESBO 	<ul style="list-style-type: none"> · Phosphites · Stearates · BAEROPOL

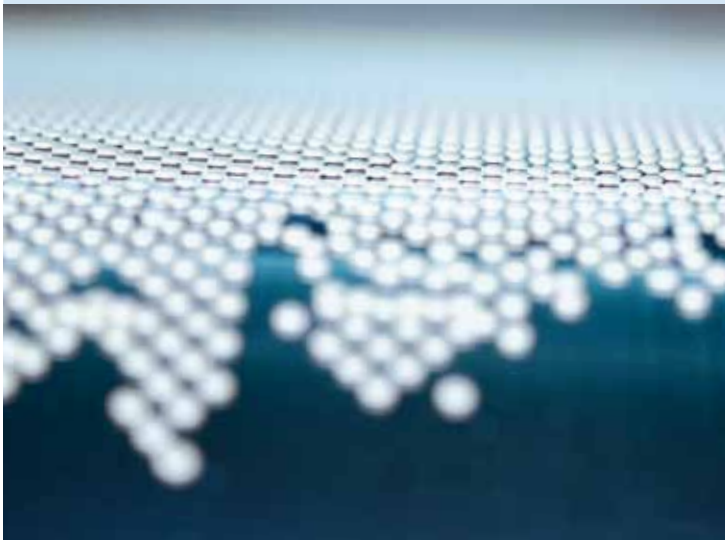


Competences



Research & Development

Comprehensive Know-how about the production and use of plastics additives and the development of new additive systems are what makes Baerlocher stand out as a research-orientated enterprise with strong creative potential. Continuous investment in research and development and a large number of skilled research scientists and technical experts are the source of our innovative power. Baerlocher has R&D sites in Germany (Unterschleissheim), France (Marseille), Italy (Lodi), the United States (Dover, Cincinnati) and India (Dewas).



Production

A network of fourteen production sites situated globally in key markets makes the Baerlocher Group of Companies a reliable partner with regard to worldwide availability of technology. State of the art production technology ensures consistent product quality independent from the respective production site. Regular investments are made for new capacities using the latest technologies, in support for the growing and changing demand for our products.



Technical Service

Baerlocher's Technical Service takes care of the customers' needs and transfers our research results to the various markets. Furthermore, we individually develop tailor-made solutions with our customers combining experience and know-how. Our technicians' toolbox comprises excellent contact into the related industries such as producers of machinery, tooling and raw materials and is backed up by well-equipped application laboratories. Experience and know-how is shared throughout our Technical Service groups worldwide.

Sustainability

A constantly changing legal environment is one of the challenges of the years to come. To ensure sustainability of its products and processes in this changing environment the Baerlocher group of companies has gathered expert resources.

Our specialists constantly cooperate with the different regulatory bodies and chemical association networks. RSPO*-certified fatty acids and metal stearates complete our product range.

These efforts provide a safe future for our industry's business.

*Roundtable on Sustainable Palm Oil (RSPO)



Product Forms

Innovative product forms and packaging ensure safe handling during transport, storage and production at our customers. Main focus lies on granular (AV and R) products, prills (SP), flakes (SMS) and pastilles (TX) that ensure dust-free handling combined with excellent dispersability.



Quality Management and EHS

We are committed to the principles of responsible care: Sustainable development, safe and environmentally friendly production processes as well as protection of people and the environment are therefore key corporate goals. Our quality management system with ISO 9001 certification, our environmental management system with ISO 14001 certification and our energy saving management system ISO 50001 certification encourage all employees to act responsibly in order to achieve joint success with our customers.



PVC Applications

Plastics create new solutions for the future. Additives play a crucial role in determining processing properties and product quality. Baerlocher supports the plastics industry all over the world by developing and manufacturing high-quality, innovative plastics additives.

Rigid PVC: Extrusion

- Window profiles
- Technical profiles
- Pipes
- Sheets



BAEROSTAB: Ca-, Pb-, Sn-based stabilizers

BAEROPAN: Ca-, Pb-, Sn-based stabilizer/lubricant one-packs

BAEROLUB: lubricants

Rigid PVC: Injection Moulding

- Fittings for gutters and pipes
- Connectors for profile systems
- Ventilation devices



BAEROSTAB: Ca-, Pb-, Sn-based stabilizers

BAEROPAN: Ca-, Pb-, Sn-based stabilizer/lubricant one-packs

BAEROLUB: lubricants

Plasticized PVC: Extrusion

- Cables
- Hoses
- Flexible profiles



BAEROSTAB: Ca-, Pb-, Sn-based stabilizers

BAEROPAN: Ca-, Pb-, Sn-based stabilizer/lubricant one-packs

BAEROLUB: lubricants

Rigid PVC Films: Calendering, Extrusion, Blow Moulding

- Food and pharmaceutical packaging
- Furniture films
- Adhesive tapes
- Card films
- Print films
- Shrink films
- Stationary



BAEROSTAB: stabilizers and co-stabilizers (based on Ca/Zn, Sn, ESBO, stabilizers, phosphites)

BAEROLUB: lubricants, antifogging, antiblocking

BAEROSTAT: antistatic agent

Plasticized PVC Films: Calendering, Extrusion, Injection Moulding, Blow Moulding

- Floorings
- Waterproof membranes
- Lamination films
- Automotive films
- Print films
- Pool liner
- Pondfilms
- Tapes
- Adhesive films
- Stationary



BAEROSTAB: stabilizers and co-stabilizers (based on Ba/Zn, Ca/Zn, Mg/Zn, ESBO, phosphites)

BAEROLUB: lubricants, antiblocking

BAEROSTAT: antistatic agent

Plastisols: Spreading, Screen Printing, Rotation Moulding, Dipping, Spraying, Casting

- Cushion Vinyl
- Wall covering
- Artificial leather
- Conveyor belts
- Coated textiles for construction
- Tarpaulins
- Tents
- Toys



BAEROSTAB: kickers, stabilizers and co-stabilizers (based on Ba/Zn, Ca/Zn, K/Zn, Mg/Zn, ESBO, phosphites)

BAEROSTAT: antistatic agent

Special Additive Applications

Baerlocher's Special Additives include oleochemicals, metal soaps and lubricants. Furthermore, special services are provided in form-giving and development of customer-specific additive blends. These products and services are used in sophisticated polymer applications as well as in other industries.

- Acid Scavengers
- Lubricants
- Stabilizers



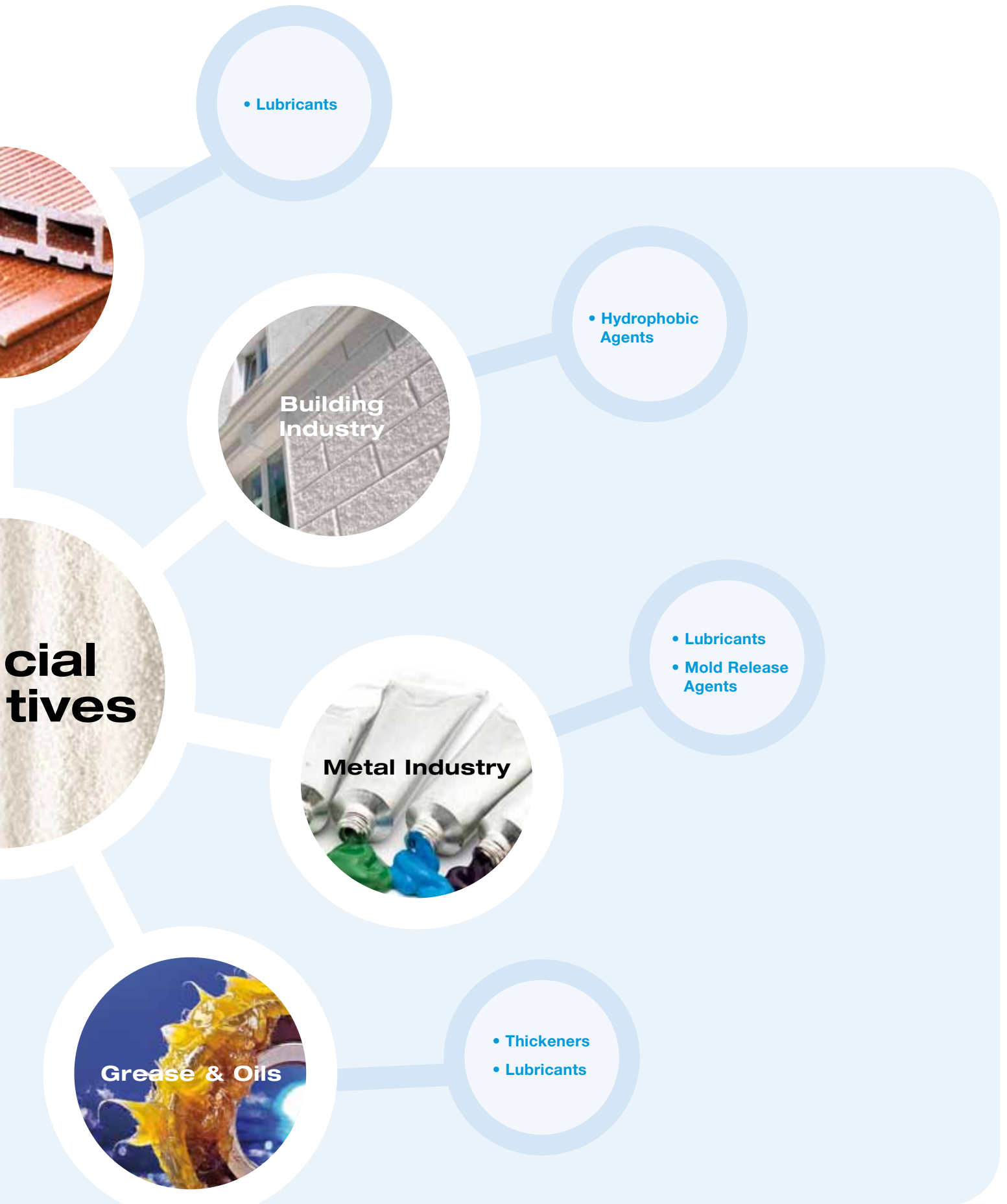
- Anti-tacking Agents
- Lubricants
- Vulcanization Aid



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Addi

- Processing Aid
- Mold Release Agents





Solutions Provided with Additives

Baerlocher's SPA Strategic Business Unit Special Additives

- Oleochemical based innovations for polymer and non-polymer applications
- Additives providing lubrication, process aid, rheology modification, antacid, stabilization, hydrophobicity, and more
- Incorporation solutions for additives via one-packs



Oleochemistry

High quality animal fats and vegetable oils are the renewable foundation of Baerlocher's oleochemical activities.

- Fatty acids
- Hydrogenated tallow
- Glycerine

Applications of these products range from lubricants, release agents, rheology modifiers, and stabilizers to candles, textiles, polyurethanes and lacquers.

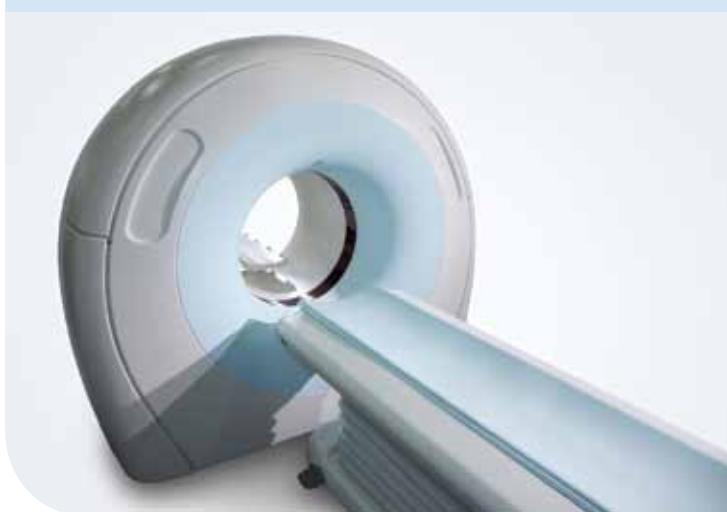


Non-Polymer applications

Baerlocher has developed special additives for a wide variety of applications, including

- Building industry
- Lubricants and greases
- Lacquers and coatings
- Paper, and metalworking

Custom developments and form giving ensure our technology meets customers' application performance needs.



Elastomer and Thermoset applications

Baerlocher is offering a range of metal soaps optimized for rubber formulation, compounding and processing, as well as thermoset formulation and processing.

- Anti-tacking agents
- Mold release agents
- Rheology modifiers

Baerlocher's Special Additive Portfolio for Polymer Applications

- **Metallic Stearates:** Antacids, lubricants, and process aid additives for polymers
- **BAEROPOL:** Custom formulated additive blends for a broad range of polymers available as customer specified toll production or made to order blends
- **BAEROPOL RST:** Synergistic secondary stabilizers and antacids
- **T-BLEND:** Preformulated stabilization blends incorporating Baerlocher RST Technology

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Polymer Manufacturing

From antacids to secondary stabilization, Baerlocher delivers polymer processing protection

- Highly effective stearates and stabilizers
- Additive formulations custom blended in 100 % active form
- Low dusting granules, prills, and pastilles for EH&S compliance
- Improved additive control and cost savings versus neat additive addition
- Replace costly polymer masterbatch additives



Polymer Compounding and Recycling

- Control and protect key polymer properties during and after processing
- Improve processing efficiency and reduce rejected parts/compounds
- Improve resin processing properties and increase long term part life
- Improved economics with 100% active additive blends vs. masterbatch
- Upgrade recycled resins close to prime resin performance and compatibilize mixed polymer streams

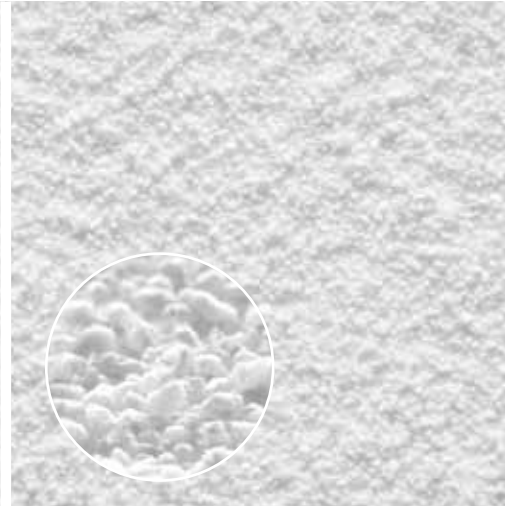


Processing aids for Wood Plastic Composites

- Lower and stable melt viscosity, reduced torque
- Compatibilization and improved filler dispersion
- Improved mechanical properties along with lower scrap and recycling rates
- Higher productivity and output



Product forms



Liquids

Various families of stabilizers and other additives made by Baerlocher are in liquid form.

- dosage accuracy
- easy storage in tanks
- easy homogenisation in polymers and with other ingredients
- quick and safe flow through pumps

MC/SW Powder

Baerlocher offers a variety of single components and customer specific additive blends in powder forms, ranging from micronized to free flowing coarse powders.

- small particles, high active surface area
- good dispersability in final applications
- good compatibility with powder blends
- medium bulk density

AV Granules

A broad range of high quality stearates is produced by Baerlocher's proprietary AV technology.

- free flowing
- very low dust
- good dispersability in polymers
- easy to handle, accurate dosing
- high bulk density
- granular fractions selected to customer needs



R Granules

A variety of additives is mixed and compacted to form Baerlocher's R granules.

- free flowing
- robust handling characteristics
- high feeding accuracy
- good dispersability
- suitable to be stored in silo
- low dust



SP Sprayed Prills

Highest purity zinc stearates and a range of Baerlocher's lubricants are offered as sprayed prills.

- very low dusting
- absolutely free flowing granules, compatible with powder blends
- very high bulk density
- high feeding accuracy



SMS/TX Melt Products

Originating from specific melt processes, Baerlocher offers zinc stearates and multi component stabilizers as pastilles (TX) and flakes (SMS).

- absolute dust-free
- suitable to be stored in silo
- free flowing
- durable, high abrasion resistance
- improved industrial hygiene

Notice: Although the information and recommendations contained in this document (hereinafter "Information") are presented in good faith and believed to be correct at the date of their publication, Baerlocher makes no representations or warranties as to the completeness or accuracy of Information. Information is supplied upon the condition that the persons or entities receiving same will make their own determination as to its suitability for their purposes prior to their use. In no event, will Baerlocher be responsible or liable for any loss of profits, lost goodwill, direct, special, indirect, incidental, or consequential damages of any nature whatsoever, including without limitation lost revenue, resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained in this disclaimer is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent or intellectual property right, and Baerlocher makes no representation or warranty, express or implied, that the use thereof will not infringe any patent or intellectual property rights. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which Information refers.

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Reach out for the Future: www.baerlocher.com

Please download the following brochures from our webpage:

Baerlocher Additives for PVC

- Extrusion and Injection Moulding
- Cables and Wires
- Calendered Films and Sheets
- Lead Stabilizers
- Lubricants
- Organotin Stabilizers
- Plastisol
- Sheets and Foamed Profiles

Baerlocher Special Additives

- Metallic Stearates

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