Baerlocher Additives
Reach out for the Future
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 knowledge 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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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.

**Future success starts today**
### Reach out for the customer

The Baerlocher Group of Companies is present with 16 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 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 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 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
- BAEROSTAB
- BAEROPOL
- BAEROLUB
- BAEROPHOB
- BAEROCID
- BAEROCIN
- CEASIT
- ZINCUM

![Baerlocher Logo](image-url)
Sixteen production sites in Germany, United Kingdom, Italy, France, San Marino, Turkey, the United States, China, Malaysia, Korea, 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 1150 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.
<table>
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<tr>
<th>Production Sites</th>
<th>Products</th>
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<td>Germany</td>
<td>· Ca-based stabilizers</td>
</tr>
<tr>
<td>Baverocher GmbH</td>
<td>· Stearates</td>
</tr>
<tr>
<td>Lingen</td>
<td>· BAEROPOL</td>
</tr>
<tr>
<td>Italy</td>
<td>· Sn stabilizers</td>
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<tr>
<td>Baverocher Italy S.p.A.</td>
<td>· Liquid Mixed Metal stabilizers</td>
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<td>Lodí</td>
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<tr>
<td>United Kingdom</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher UK Ltd. Bury</td>
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<tr>
<td>France</td>
<td>· Waxes</td>
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<tr>
<td>Baverocher France SAS</td>
<td>· Lubricants</td>
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<tr>
<td>Marseille</td>
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<tr>
<td>Turkey</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher Kimya</td>
<td>· one-packs</td>
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<tr>
<td>SaN. Ve Tic. Ltd. Şti,</td>
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<tr>
<td>Akhisar</td>
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<tr>
<td>Malaysia</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher (M) Sdn Bhd</td>
<td>· Pb one-packs</td>
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<td>Seremban</td>
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<tr>
<td>India</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher India Additives Pvt. Ltd.,</td>
<td>· Stearates</td>
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<tr>
<td>Dewas</td>
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<tr>
<td>China</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher Plastic Additives (Jiangsu), LTD, Changzou</td>
<td>· Pb one-packs</td>
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<tr>
<td>USA</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher Production USA</td>
<td>· Liquid Mixed Metal stabilizers</td>
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<tr>
<td>LLC, Cincinnati</td>
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<tr>
<td>USA</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher USA LLC</td>
<td>· Liquid Mixed Metal stabilizers</td>
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<tr>
<th>Joint Ventures</th>
<th>Products</th>
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<tbody>
<tr>
<td>Brazil</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Baverocher do Brasil SA</td>
<td>· Pb one-packs</td>
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<td>Americana</td>
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<td></td>
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<tr>
<td>Argentina</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Lestar Quimica SA</td>
<td>· Pb one-packs</td>
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<td>Junín</td>
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<tr>
<td>Peru</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>Compania Quimica SA</td>
<td>· Pb stabilizers and one-packs</td>
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<tr>
<td>Lima</td>
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<tr>
<td>Italy</td>
<td>· Stearates</td>
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<td>SO.G.I.S. S.p.A.</td>
<td>· Fatty Acids</td>
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<td>Cremona</td>
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<tr>
<td>Republica San Marino</td>
<td>· Ca-based stabilizers</td>
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<tr>
<td>TITANSTUC SA</td>
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<td>Faetano</td>
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<tr>
<td>Panama</td>
<td>· BAEROPOL</td>
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<td>DOOBON, Fine Chemical Co., LTD, Chungchong</td>
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</tbody>
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Competences

Research & Development

Comprehensive knowledge 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 sixteen 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 knowledge. 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 knowledge 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.
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.

**PVC Applications**

**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

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

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: stabilizers and co-stabilizers (based on Ca/Zn, Sn, ESBO, stabilizers, phosphites)
BAEROLUB: lubricants, antifogging, antiblocking
BAEROSTAT: antistatic agent
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.
- Hydrophobic Agents
- Lubricants
- Mold Release Agents
- Thickeners
- Lubricants

Building Industry

Metal Industry

Grease & Oils
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

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
<table>
<thead>
<tr>
<th><strong>R Granules</strong></th>
<th><strong>SP Sprayed Prills</strong></th>
<th><strong>SMS/TX Melt Products</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A variety of additives is mixed and compacted to form Baerlocher’s R granules.</td>
<td>Highest purity zinc stearates and a range of Baerlocher’s lubricants are offered as sprayed prills.</td>
<td>Originating from specific melt processes, Baerlocher offers zinc stearates and multi component stabilizers as pastilles (TX) and flakes (SMS).</td>
</tr>
<tr>
<td>• free flowing</td>
<td>• very low dusting</td>
<td>• absolute dust-free</td>
</tr>
<tr>
<td>• robust handling characteristics</td>
<td>• absolutely free flowing granules, compatible with powder blends</td>
<td>• suitable to be stored in silo</td>
</tr>
<tr>
<td>• high feeding accuracy</td>
<td>• very high bulk density</td>
<td>• free flowing</td>
</tr>
<tr>
<td>• good dispersability</td>
<td>• high feeding accuracy</td>
<td>• durable, high abrasion resistance</td>
</tr>
<tr>
<td>• suitable to be stored in silo</td>
<td></td>
<td>• improved industrial hygiene</td>
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<tr>
<td>• low dust</td>
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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 Molding
  - Cables and Wires
  - Calendered Films and Sheets

- Baerlocher Additives for PVC Extrusion and Injection Moulding
  - Cables and Wires
  - Calendered Films and Sheets

- Baerlocher Special Additives
  - Metallic Stearates
  - Hydrophobic Agents for Building Materials
  - Plastisol
  - Organotin Stabilizers
  - Lead Stabilizers
  - Sheets and Foamed Profiles

- Other products:
  - Lubricants
  - Lead Stabilizers
  - Plastisol
  - Sheets and Foamed Profiles
  - Metallic Stearates
  - Hydrophobic Agents for Building Materials

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