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 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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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 15 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 the industry

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 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 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 | Baerocid |
| Baerostab | Baerocin |
| Baeropol | Ceasit |
| Baerolub | Zincum |
| Baerophob |
Fifteen production sites in Germany, United Kingdom, Italy, France, Turkey, the United States, China, Malaysia, India, Korea, 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.
<table>
<thead>
<tr>
<th>Country</th>
<th>Company Name</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>Baerlocher GmbH</td>
<td>Ca-based stabilizers, Stearates, Baeropols, Fatty Acids, Glycerin, Hydrophobic agents</td>
</tr>
<tr>
<td>Italy</td>
<td>Baerlocher Italy S.p.A., Lodi</td>
<td>Sn stabilizers, Liquid Mixed Metal stabilizers, Lubricants, Stearates, Fatty Acids, Glycerin, Fatty Acid Derivatives</td>
</tr>
<tr>
<td>Italy</td>
<td>SO.G.I.S. S.p.A., Cremona</td>
<td>Ca-based stabilizers, Stearates, Fatty Acids, Glycerin, Hydrophobic agents</td>
</tr>
<tr>
<td>Germany</td>
<td>Baerlocher GmbH</td>
<td>Ca-based stabilizers, Stearates, Baeropols, Fatty Acids, Glycerin, Hydrophobic agents</td>
</tr>
<tr>
<td>France</td>
<td>Baerlocher France SAS</td>
<td>Waxes, Lubricants, Solid Sn-based one-packs</td>
</tr>
<tr>
<td>Turkey</td>
<td>Baerlocher Kimya SaN. Ve Tic. Ltd. Şti</td>
<td>Ca-based stabilizers one-packs, Pb stabilizers and one-packs</td>
</tr>
<tr>
<td>Turkey</td>
<td>Baerlocher Kimya SaN. Ve Tic. Ltd. Şti</td>
<td>Ca-based stabilizers one-packs, Pb stabilizers and one-packs</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Baerlocher (M) Sdn Bhd</td>
<td>Ca-based stabilizers, Pb stabilizers and one-packs, Stearates, Baeropols</td>
</tr>
<tr>
<td>India</td>
<td>Baerlocher India Additives Pvt. Ltd.</td>
<td>Ca-based stabilizers, Pb stabilizers and one-packs, Liquid Mixed Metal stabilizers</td>
</tr>
<tr>
<td>China</td>
<td>Baerlocher Plastic Additives (Jiangsu), LTD</td>
<td>Ca-based stabilizers, Pb one-packs</td>
</tr>
<tr>
<td>Korea</td>
<td>DOOBON Fine Chemical Co., LTD</td>
<td>Baeropols</td>
</tr>
<tr>
<td>USA</td>
<td>Baerlocher Production USA LLC, Cincinnati Baerlocher USA LLC, Dover</td>
<td>Ca-based stabilizers, Liquid Mixed Metal stabilizers, Stearates, Baeropols</td>
</tr>
<tr>
<td>Peru</td>
<td>Compania Quimica SA Lima</td>
<td>Ca-based stabilizers, Pb stabilizers and one-packs, Liquid Mixed Metal stabilizers, Plasticizer</td>
</tr>
<tr>
<td>Brazil</td>
<td>Baerlocher do Brasil SA Americana</td>
<td>Ca-based stabilizers, Pb one-packs, Liquid Mixed Metal stabilizers, Stearates, Baeropols, Fatty Acids</td>
</tr>
<tr>
<td>Argentina</td>
<td>Lestar Quimica SA Junín</td>
<td>Ca-based stabilizers, Pb one-packs, ESBO, Stearates, Baeropols, Phosphites</td>
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</table>
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 (Munich-Unterschleissheim), France (Marseille), Italy (Lodi), the United States (Dover, Cincinnati) and India (Dewas).

Production

A network of fifteen 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, SP and R) products, 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.

**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, phoshites) |
| 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 |
Baerlocher’s Special Additives include oleo-chemicals (fatty acids and glycerin), metal soaps and lubricants. Furthermore, we offer special services 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

Building Industry

• Coating Agents
• Stabilizers

Paper

• Lubricants
• Anticaking Agents
• Mold Release Agents

Pharma Cosmetics

allc rates
Stearates

Baerlocher has developed and uses the best of a variety of technologies to produce zinc, calcium, magnesium, lithium, sodium and aluminium stearates designed to meet the varying and demanding requirements of our customers.

Baerlocher can supply stearates that meet or exceed the requirements of almost any type of industrial applications.

Baeropol

Based on over 30 years of experience in compaction and granulation technology, Baerlocher’s Baeropol processes provide customer specific, polymer-free additive packages in a variety of physical forms.

The Baeropol forms are extremely free-flowing, dust-free, easy to dose, 100% active compositions, tailor-made to individual customer requirements.

Lubricants for Wood Plastic Composites

Wood plastic composites (WPC) are a new group of materials that are generating more and more interest. The term „WPC“ covers an extremely wide range of composite materials using plastics ranging from HDPE, PP to PVC and binders/fillers ranging from wood flour to flax.

Depending on the resin, wood filler content and performance requirements of the application, Baerlocher can provide complete solutions for lubricant systems for the manufacture of wood plastic composite products.
Baerlocher produces the major families of metallic stearates in a variety of physical forms and with different chemical properties.

The Baeropol additive packages are available to all high-performance polymer applications, offering various advantages to customers:

- Productivity benefits
- Feeding and handling
- Quality control
- Production monitoring
- Processing

Some benefits of Baerlocher Baerolub lubricant one pack systems:

- Higher productivity, increased extrusion output
- Reduction of processing temperature
- Better wetting of the wood fiber
- Better surface of extruded profiles

Unique combination of synthesis, application know-how and broad/versatile form giving technologies offered to individual customers to develop tailor-made solutions.
**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 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>Product Forms</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>R Granules</strong></td>
<td>A variety of additives is mixed and compacted to form Baerlocher's R granules.</td>
</tr>
<tr>
<td></td>
<td>• free flowing</td>
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<tr>
<td></td>
<td>• robust handling characteristics</td>
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<tr>
<td></td>
<td>• high feeding accuracy</td>
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<tr>
<td></td>
<td>• good dispersability</td>
</tr>
<tr>
<td></td>
<td>• suitable to be stored in silo</td>
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<tr>
<td></td>
<td>• low dust</td>
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<tr>
<td><strong>SP Sprayed Prills</strong></td>
<td>Highest purity zinc stearates and a range of Baerlocher's lubricants are</td>
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<tr>
<td></td>
<td>offered as sprayed prills.</td>
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<tr>
<td></td>
<td>• very low dusting</td>
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<tr>
<td></td>
<td>• absolutely free flowing granules, compatible with powder blends</td>
</tr>
<tr>
<td></td>
<td>• very high bulk density</td>
</tr>
<tr>
<td></td>
<td>• high feeding accuracy</td>
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<tr>
<td><strong>SMS/TX Melt Products</strong></td>
<td>Originating from specific melt processes, Baerlocher offers zinc</td>
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<tr>
<td></td>
<td>stearates and multi component stabilizers as pastilles (TX) and flakes (SMS).</td>
</tr>
<tr>
<td></td>
<td>• absolute dust-free</td>
</tr>
<tr>
<td></td>
<td>• suitable to be stored in silo</td>
</tr>
<tr>
<td></td>
<td>• free flowing</td>
</tr>
<tr>
<td></td>
<td>• durable, high abrasion resistance</td>
</tr>
<tr>
<td></td>
<td>• improved industrial hygiene</td>
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</tbody>
</table>
Disclaimer

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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
- Formgiving