



Baerlocher Additives

**Reach out for
the Future**

we add character to plastics

BÆRLOCHER





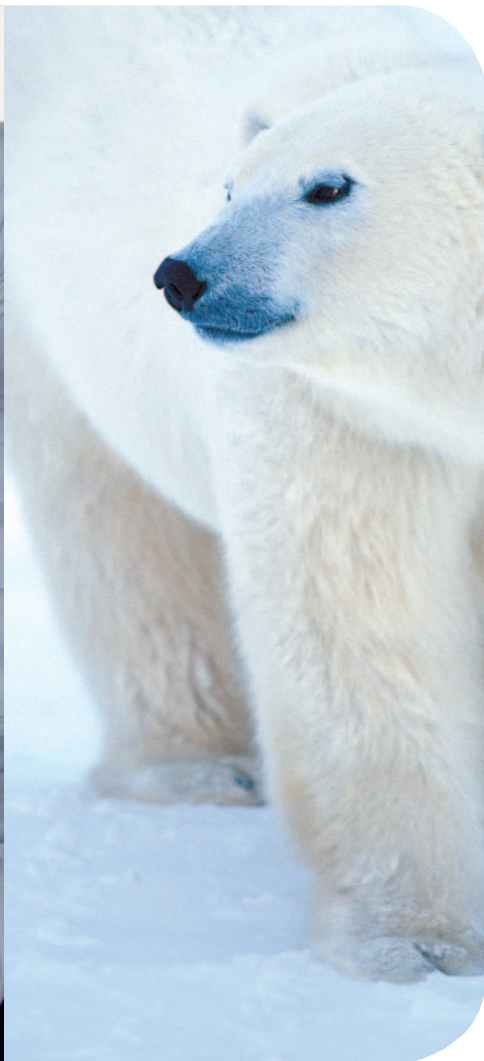
we add character to plastics

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 180 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, in particular for the PVC industry, as well as for other industries.

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

www.baerlocher.com

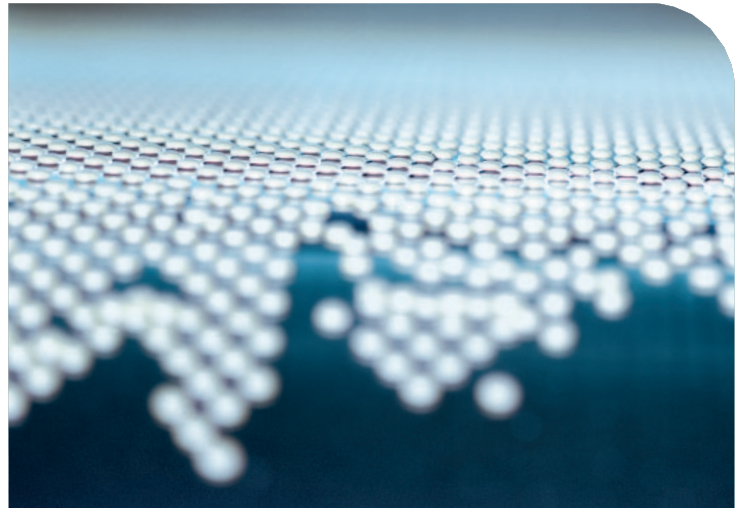


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Future success starts today

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 products and optimise production processes. Baerlocher is well prepared for these challenges and thus a competent, reliable partner for the industry. Already for many years, Baerlocher makes significant R & D efforts to explore which raw materials are best suited in terms of application, end-use, environment and sustainability.

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 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 the customer

The Baerlocher Group of Companies is present in all major countries worldwide and runs production plants in 11 of them. Consequently, Baerlocher continues to strengthen its global presence by establishing offices in additional countries.

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 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.

Baerlocher products

Baeropan

Baerostab

Baerolub

Baeropol

Baerocid

Ceasit

Zincum

BÆRLOCHER



Baerlocher worldwide



Thirteen production sites in Germany, United Kingdom, Italy, France, the United States, Malaysia, India, Korea, Brazil, Peru and Argentina as well as a sales network covering more than 40 countries 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 in Germany (Munich-Unterschleissheim), France (Marseille), Italy (Lodi), the United States (Dover, Ohio) and India (Mumbai).





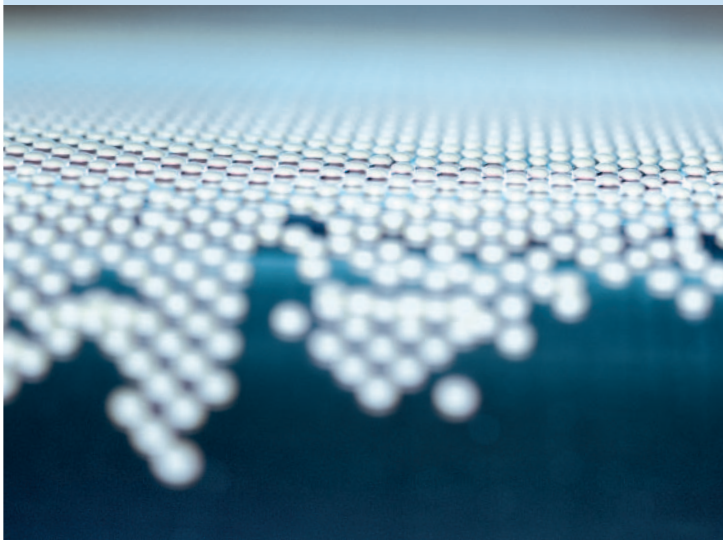
1	Germany Baerlocher GmbH Lingen	· Solid Ca-based stabilisers · Pb stabilisers and one-packs	· Stearates · Baeropols · Fatty Acids
2/3	Italy Baerlocher Italy S.p.A. SO.G.I.S. S.p.A. Lodi, Cremona	· Solid Ca-based stabilisers · Sn stabilisers · Liquid Mixed Metal stabilisers	· Lubricants · Stearates · Fatty Acids
4	United Kingdom Baerlocher UK Ltd. Bury	· Solid Ca-based stabilisers · Pb one-packs	
5	France Baerlocher France SAS Marseille	· Solid Sn-based one-packs · Lubricants · Waxes	
6	Malaysia Baerlocher (M) Sdn Bhd Seremban	· Solid Ca-based stabilisers · Pb stabilisers and one-packs	· Stearates · Baeropols
7	India Baerlocher India Additives Pvt. Ltd. Dewas	· Solid Ca-based stabilisers · Pb stabilisers and one-packs	· Liquid Mixed Metal stabilisers
8	Korea DOOBON Fine Chemical Co., LTD Chungchong	· Stearates · Baeropol	
9/10	USA Baerlocher Production USA LLC Baerlocher USA LLC Cincinnati and Dover	· Solid Ca-based stabilisers · Liquid Mixed Metal stabilisers	· Stearates · Baeropols
11	Peru Compania Quimica SA Lima	· Solid Ca-based stabilisers · Pb stabilisers and one-packs	· Liquid Mixed Metal stabilisers · Plasticiser
12	Brazil Baerlocher do Brasil SA Americana	· Solid Ca-based stabilisers · Pb one-packs · Liquid Mixed Metal stabilisers	· Stearates · Baeropols
13	Argentina Lestar Quimica SA Junín (Buenos Aires)	· Solid Ca-based stabilisers · Pb one-packs · ESBO	· Phosphites · Stearates · Baeropols

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 (Munich-Unterschleissheim), France (Marseille), Italy (Lodi), the United States (Dover, Ohio) and India (Mumbai).



Production

A network of thirteen 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, it individually develops 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. These efforts provide a save future for our industry's business.

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 E/R) products, flakes (SMS) and pastilles (TX) that ensure dust-free handling combined with excellent dispersability.

Quality Management and EHS

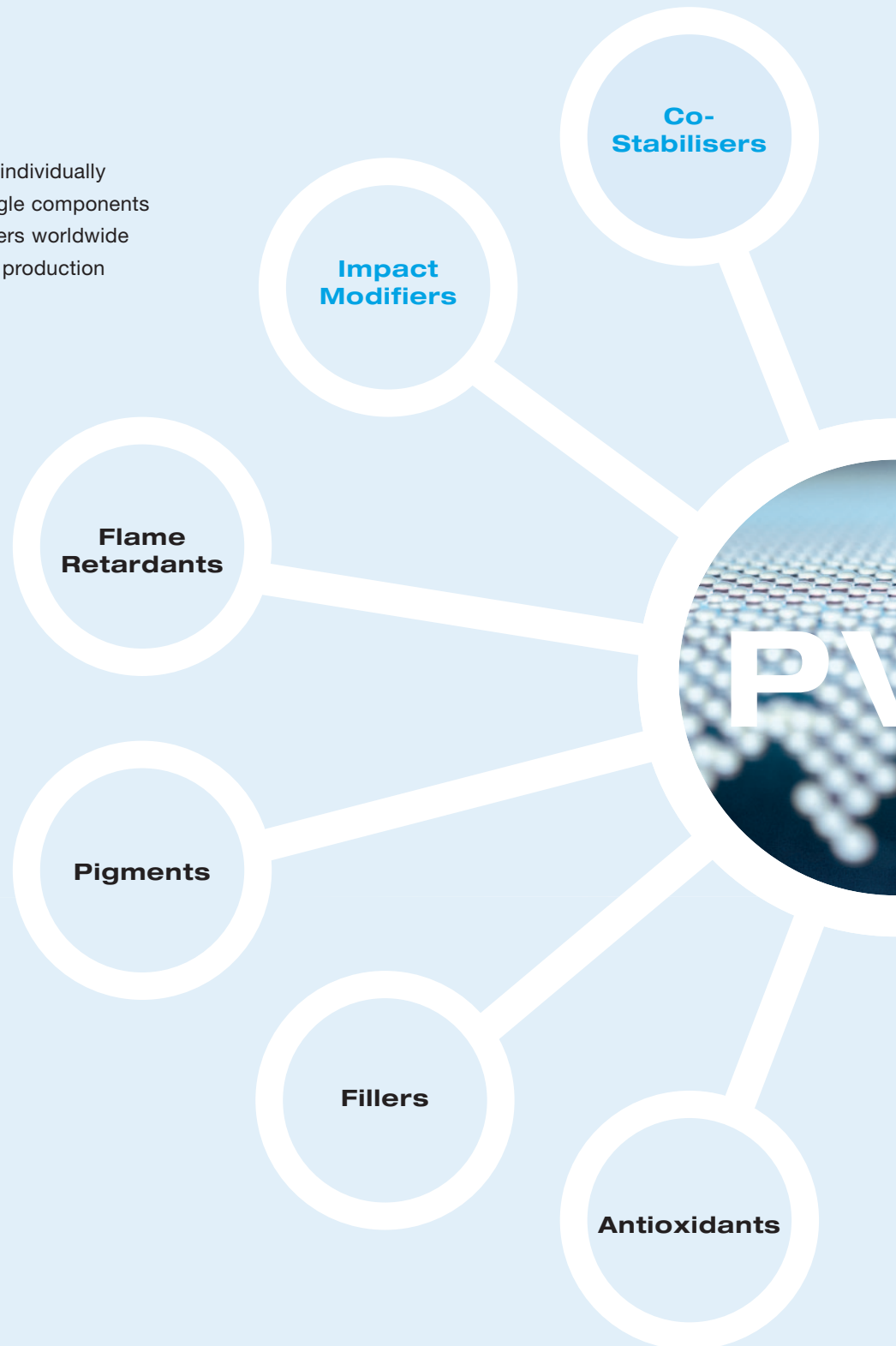
We are committed to the principles of responsible care: sustainable development, safe and environmentally friendly production processes as well as protection of people and the environment are therefore key corporate goals. Our quality management system with ISO 9001 certification and our environmental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

PVC Formulations - Baerlocher Additives

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.

Single Components

For customers who desire to dose individually within their production process single components are readily available from Baerlochers worldwide production sites with standardised production process and product quality.





One-Packs

In 1963 Baerlocher invented ready-made blends of additives for the PVC industry. These so-called „One-Packs“ include all necessary additives for PVC processing such as lubricants and stabilisers. To meet specific customers demands various other additives can be included.

PVC Applications

Rigid PVC: Extrusion

- Window profiles
- Technical profiles
- Pipes
- Sheets



Baerostab: Ca-, Pb-, Sn-based stabilisers

Baeropan: Ca-, Pb-, Sn-based stabiliser/lubricant one-packs

Baerolub: lubricants

Rigid PVC: Injection Moulding

- Fittings for gutters and pipes
- Connectors
- Ventilation devices



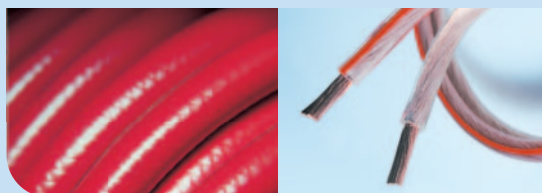
Baerostab: Ca-, Pb-, Sn-based stabilisers

Baeropan: Ca-, Pb-, Sn-based stabiliser/lubricant one-packs

Baerolub: lubricants

Plasticised PVC: Extrusion

- Cables
- Hoses
- Flexible profiles



Baerostab: Ca-, Pb-, Sn-based stabilisers

Baeropan: Ca-, Pb-, Sn-based stabiliser/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



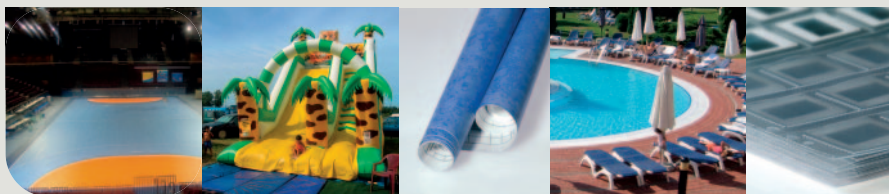
Baerostab: stabilisers and co-stabilisers (based on Ca/Zn, Sn, ESBO, Ca-stearates, phosphites)

Baerolub: lubricants, antifogging, antiblocking

Baerostat: antistatic agent

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

- Floorings
- Roofing membranes
- Lamination films
- Decorative films
- Automotive films
- Print films
- Pool liner
- Pondfilms
- Adhesive films



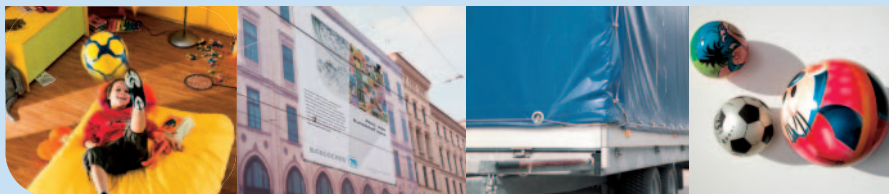
Baerostab stabilisers and co-stabilisers (based on Ba/Zn, Ca/Zn, Mg/Zn, ESBO, phosphites)

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, stabilisers and co-stabilisers (based on Ba/Zn, Ca/Zn, K/Zn, Mg/Zn, ESBO, phosphites)

Baerostat: antistatic agent

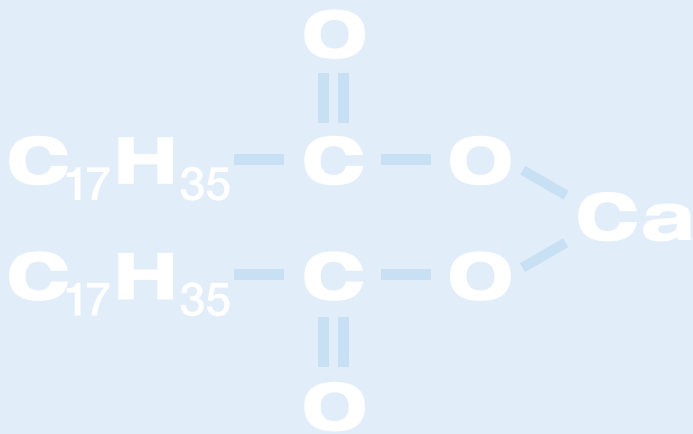
Special Additive Applications

Baerlocher's Special Additives include oleo-chemicals (fatty acids and glycerine), 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.





Special Additives, Know-how and Services



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.

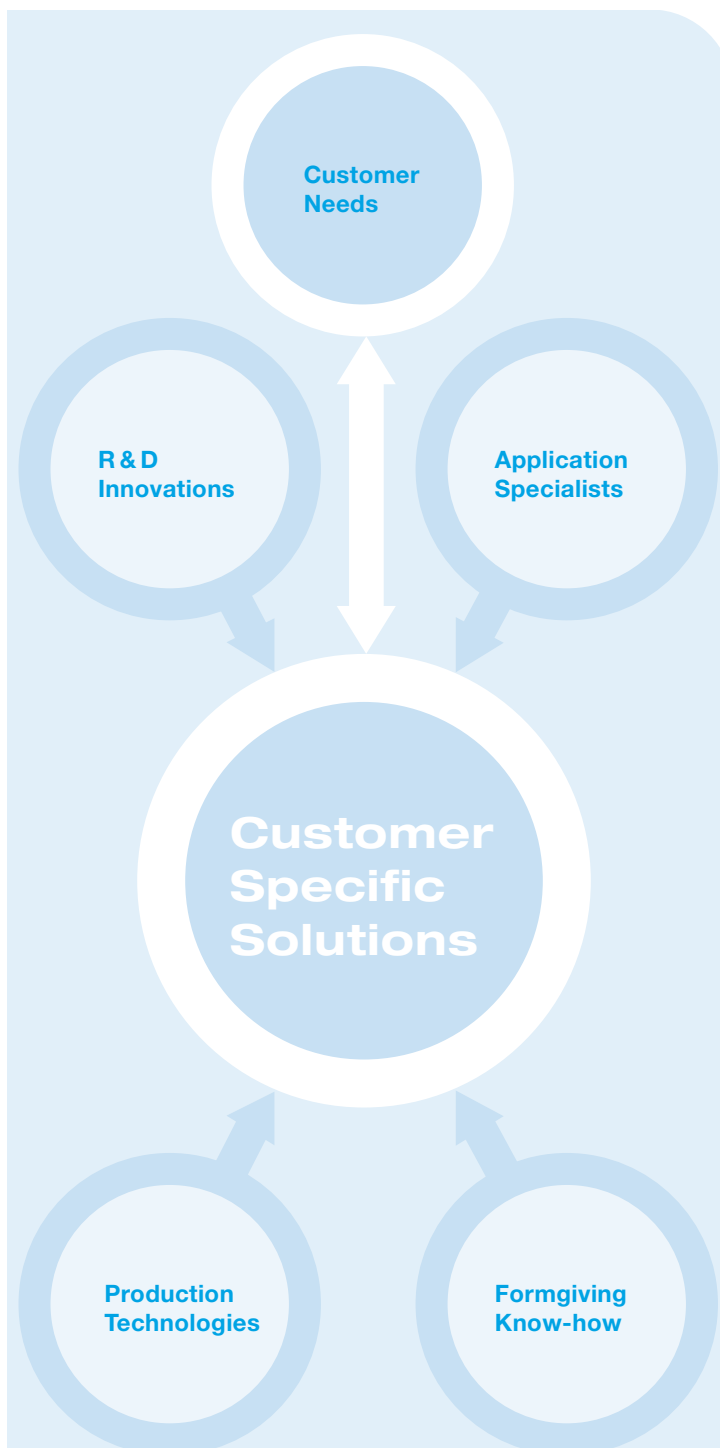
With the flexibility to produce the major families of metallic stearates in a variety of physical forms and with different chemical properties, Baerlocher can supply products that meet or exceed the application requirements of most any type of industrial application where metallic stearates are used.

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
- Logistics
- Storekeeping

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 tailored made solutions.

Product forms



Liquids

Various families of stabilisers 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 micronised 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



SP Sprayed Granules

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

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

SMS /TX Melt Products

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

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

Disclaimer

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Reach out for the Future: www.baerlocher.com

The following brochures are available as PDF-files:

Baerlocher Additives for PVC

- Additives for PVC (Overview)
- Lead Stabilisers
- Organotin Stabilisers
- Lubricants
- Extrusion and Injection Moulding
- Cables and Wires
- Calendered Films and Sheets
- Plastisol
- Sheets and Foamed Profiles

Baerlocher Special Additives

- Metallic Stearates

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