



WACKER

SILICONES

ADVALON®

FIBER-MANUFACTURING SOLUTIONS

CREATING TOMORROW'S SOLUTIONS



THE ADVALON® BRAND NAME STANDS FOR RELIABILITY AND EXCEPTIONAL EFFECTS.

The name ADVALON® is all about adding value, which is exactly what WACKER offers its customers and partners in the field of fiber production.

To begin with, ADVALON® stands for a whole range of top-quality fiber-industry products that are available or can be ordered worldwide. Of course, the name also stands for a wide variety of effects that boost the success of your market activities. ADVALON® stands for creative ideas that enhance your portfolio in very special ways.

Additionally, the name stands for a great deal that cannot be depicted in tables or specifications. For instance, the experienced specialists who offer you professional advice and help you to optimize your products. Or the people at WACKER SILICONES who listen to you and speak your language, i.e. the highly dedicated scientists who take your ideas seriously and make headway with your latest development. Just think of WACKER SILICONES' modern infrastructure that provides an ideal climate for R&D projects. Or our reliable local distributors who form part of a global network.

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The name ADVALON® stands for all this and much more. It goes without saying that ADVALON® lets the fiber industry benefit worldwide from the same combination of products, effects and services: the same unvaryingly high product quality, the same expertise and the same commitment. After all, ADVALON® is ADVALON® the world over.

ANYTHING IS POSSIBLE. SO WHY NOT THE IMPOSSIBLE, TOO?



Whether for fiber preparation or process optimization: the ADVALON® product line covers an unusually broad, and at times seemingly contradictory, range of properties.

High tensile strength or high elasticity ... dull or glossy finish ... ADVALON® enables you to choose. Hardly any other product line combines attractive trends and technical perfection in such a natural way. And the excellent processing properties let you whip your fiber production into shape.

ADVALON® at a Glance:

- High elongation
- Immense tensile strength
- High transparency
- Permanent resilience
- Hydrophobicity
- Hydrophilicity
- Elastic recovery
- Softness
- Gloss
- Matt finish
- Excellent lubricity
- Very low friction

- Antistatic properties
- Higher process speeds
- Less fiber breakage
- Less maintenance
- Lower energy requirements

ADVALON® F

The ADVALON® F product line is used in polyester fiberfill preparation and gives the fiber polymer an array of excellent properties:

- Lubricity
- Soft hand
- Excellent bulkiness
- Springiness
- Permanent resilience
- Smoothness
- Insulation properties
- Sound damping

CAVATEX®

WACKER offers CAVATEX® brand cyclodextrins for fiber applications. These cyclodextrins not only trap unpleasant odors such as sweat, but can also be filled with fragrances and conditioning agents that are released slowly during use. They thus increase the wearer's feeling of well being.

ADVALON® M

Our range includes polymer modifiers used to optimize fiber properties, one example being more extensible fibers. Another example is the anti-pilling effect: addition of ADVALON® M increases the fiber polymer's brittleness, making it easier to minimize pilling.

ADVALON® S

The ADVALON® S product line permits process effects in dry and wet spinning during polyurethane-fiber production:

- Low friction
- Good winding characteristics
- Low unwinding tension
- Faster process rate
- Less fiber breakage
- Improved efficiency
- Enhanced effectiveness

ADVALON® C

The fiber finishes in the ADVALON® C line are lubricants and auxiliaries used on precursor fibers for carbon-fiber production. These finishes are in demand whenever an application requires very high tensile strength and maximum physical resistance under extreme conditions. Such applications include golf clubs, tennis racquets and structural aircraft parts.

ADVALON® P

The ADVALON® P product line includes heat-resistant release agents and lubricants used in melt spinning for various types of fiber such as PET, PA and PP. Used as a spinneret spray, this product line gives you the following benefits:

- Less fiber breakage
- Faster process speeds
- Reduced downtime

SILFOAM® Antifoam Agents

WACKER offers specially optimized silicone antifoam agents to control foam in wet-spinning baths. SILFOAM® antifoam agents also regulate foaming and promote deaeration processes during fiber production and processing.

CAVATEX® and SILFOAM® are registered trademarks of Wacker Chemie AG.

A FRIENDLY SMILE HAS THE SAME MEANING WORLDWIDE: “WITH PLEASURE.”



WACKER's global presence is not restricted to the internet. As a provider of solutions, we also attach great importance to having direct and one-on-one contact with our customers and partners. This explains why the WACKER Group is represented by production sites, technical centers and sales offices in so many countries.

For us, local contacts are essential for efficient, country-specific cooperation. Products and services from WACKER are not only globally available but are also tailored to the local market in question. This means that you, as our customer, will always find a consultant nearby who is familiar with the regional particularities and is able to deal directly with your requirements – fast, flexibly and professionally.

Of course, you can also access our product and service portfolio online, along with all our product-relevant information, at www.wacker.com. And you are free to use our advanced online ordering system, BUYONLINE.WACKER.COM, which we will tailor to your specific needs if you so desire.

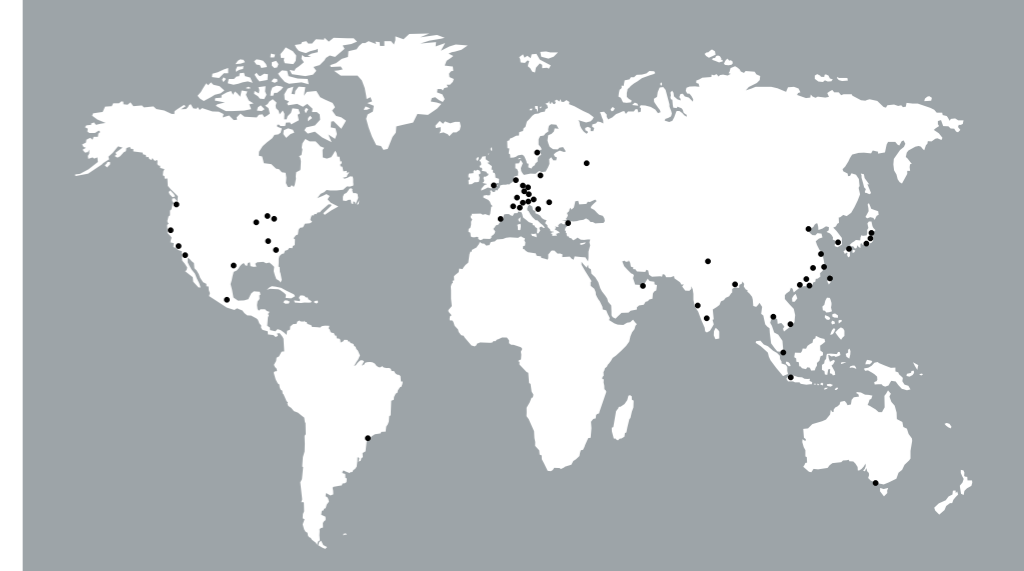
This online ordering system will facilitate placing your orders and enable you not only to track them but also to alter or cancel them if necessary. The order forms, moreover, will greatly shorten repeat order processes and hence also your internal work processes. An even more advanced form of automated order processing is available via the ELEMICA platform.

To ensure that you receive your products as quickly and reliably as you ordered them, we work exclusively with highly qualified and certified shipping agents organized in a global logistics network. Our logistics partners have the very latest facilities at their disposal. To underscore our reliability as a supplier, we record and evaluate all delivery and transport operations.

After all, we have only done our duty properly when you have really received what you need.

ADVALON® is a registered trade mark of Wacker Chemie AG.

WACKER AT A GLANCE



WACKER is a technological leader in the chemical and electrochemical industries and a worldwide innovation partner to customers in many key global sectors. With around 14,400 employees, WACKER generated sales of EUR 2.76 billion in 2005. Germany accounted for 21% of sales, Europe (excluding Germany) for 31%, the Americas for 22% and Asia-Pacific, including the rest of the world, for 26%. Headquartered in Munich, Germany, WACKER has some 20 production sites worldwide and a global network of over 100 sales offices. With R&D spending at 5.3% of sales in 2005, WACKER is among the world's most research-intensive chemical companies.

WACKER SILICONES

is a leading supplier of complete silicone-based solutions that comprise products, services and conceptual approaches. As a provider of solutions, the business division helps customers press ahead with innovations, exploit global markets fully, and optimize business processes to reduce overall costs and boost productivity. Silicones are the basis for products offering highly diverse properties for virtually unlimited fields of application, ranging from the automotive, construction, chemical, electrical engineering and electronics industries, through pulp and paper, cosmetics, consumer care and textiles, to mechanical engineering and metal processing.

WACKER POLYMERS

is the global leader for high-quality binders and polymer additives. This business division's activities encompass construction chemicals and functional polymers for lacquers, surface coatings and other industrial applications, as well as basic chemicals, i. e. acetyls. Products such as redispersible powders, dispersions, solid resins, powder binders and surface coating resins from WACKER POLYMERS are used in the construction, automotive, paper and adhesives industries, as well as by manufacturers of printing inks and industrial coatings.

WACKER FINE CHEMICALS

is an expert in organic synthesis, silane chemistry and biotechnology, providing tailored solutions for its customers in the life sciences and consumer care industries. The range of innovative products includes complex organic intermediates, organosilanes, chiral products, cyclodextrins and amino acids.

With its comprehensive expertise, WACKER FINE CHEMICALS is a preferred partner for highly challenging custom-manufacturing projects in the fields of chemistry and biotechnology.

WACKER POLYSILICON

has been producing hyperpure silicon for the semiconductor and photovoltaics industries for over 50 years. As one of the largest global manufacturers of polycrystalline silicon, WACKER POLYSILICON supplies leading wafer and solar-cell manufacturers.

Siltronic

is one of the world's leading producers of hyperpure silicon wafers, supplying many major chip manufacturers. Siltronic develops and produces wafers up to 300 mm in diameter at facilities in Europe, the USA, Asia and Japan. Silicon wafers form the basis of state-of-the-art micro and nanoelectronics used, for example, in computers, telecommunications, motor vehicles, medical technology, consumer electronics and control systems.

The data presented in this brochure are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately upon receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The information given in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

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