DISCOVER NEW HORIZONS – WACKER TEXTILE FINISHING
Whether soft and yet moisture-absorbent towels, non-iron shirts, fragrant laundry, high-quality woolen sweaters or water-repellent functional jackets – our integrated textile-finishing solutions lend garments and fabrics tailored properties.

Powerful Partnership
To succeed on today's textile market you need an effective business partner. Someone who knows exactly what you expect from textiles, whose innovative and efficient textile-finishing products enable you to tap into new markets and gain a competitive lead. Someone who can offer global service and constantly high quality standards. Someone, ultimately, with broad technological expertise and a consistent R&D strategy. In other words, someone like WACKER.

Customized Effects
WACKER is a leading global silicone producer and has a strong and extensive product portfolio to meet your individual textile-processing needs. Our products create a wide range of effects such as softness, hydrophilicity, dimensional stability, elasticity, color retention and odor control, to mention just a few. What is more, we supply effective auxiliaries for efficient and smooth production processes.

Versatile Applications
One of the many advantages of silicones is their versatility. They can be used to finish almost all kinds of fabrics, from wovens, hosiery and knitwear to non-wovens and yarns. Silicone grades range from totally inert to highly reactive and from extremely hydrophobic to hydrophilic. Their versatile application potential is also due in part to their excellent compatibility with many chemical finishing agents, such as waxes, fats, polyethylene, reactive resins, wetting agents and optical brighteners.

Integrated Solutions
We care for textiles: this sums up WACKER's expertise. Our experts are more than familiar with the demands of the dynamic textile industry, which is strongly influenced by seasonal trends. We are part of the textile chain. We identify with the sector and see ourselves as an expert partner to the whole textile industry. Whether you want high-quality, effective and innovative products or globally available and customized services, WACKER will always seek an integrated solution. In this way, we generate the potential to tap into a constant stream of new textile-finishing markets and applications together with our customers. Seize the opportunities.
COMFORT MANAGEMENT: SO CLOTHING MAKES YOU FEEL GOOD

To feel good and enjoy a high level of wearing comfort – these are important consumer expectations of high-quality clothing. Silicones from WACKER give textiles the required soft, very pleasant finish.

Effective Soft Hand
A soft, supple hand is particularly important for achieving high textile wearing comfort. No matter whether the fabric is cotton, polyester or a blend, its softness depends on the frictional forces acting between the individual yarns and fibers. The more mobile a fabric’s fibers are, and the lower the interfiber friction, the softer the fabric feels.

This is precisely the effect produced by POWERSOFT® and WACKER® FINISH. Our emulsions and emulsion concentrates transport the silicone to the fiber where it is deposited, leaving an ultrathin film on the fiber surface. This makes for wonderfully soft fabrics and outstanding wearing comfort.

A Customized Hand
Comprehensive tests have shown that amphoteric silicones, particularly those with an amine number from 0.1–0.6 and a viscosity of 1,000 – 5,000 mPa s, produce excellent softness effects in textiles made of cotton, polyester, and blends thereof. The physicochemical properties of our softener formulations enable us to continuously modify the type of hand in your textiles to meet your needs, whether the desired feel is soft, dry or supple. To this end we offer amphoteric silicone fluids, microemulsions for inner softness, and macroemulsions for a smooth, supple hand. These products are especially important for giving textiles a soft finish.
Efficient Concentrates
Today’s advanced softeners are expected to show maximum efficiency and flexibility with regard to their effects and dilutability. Such qualities are becoming increasingly important in order to satisfy the demands of a globalized textile market. Our POWERSOFT® products offer you all the options provided by traditional amino emulsions, and that in concentrated form. And you have the choice between microemulsion and macroemulsion concentrates, for optimal effects right down to the last drop.

Jet-Stable Textile Finishing
Aside from a “soft hand,” the traditional aim of finishing processes, our JETSOFT® products also produce a very pleasant dry hand. Our softeners meet stringent process reliability requirements, especially in terms of pH stability and shear resistance, and can be used even under the extreme conditions prevailing in jet dyeing machines.

Amino fluids:
- WACKER® FINISH WR 210
- WACKER® FINISH WR 301
- WACKER® FINISH WR 1100
- WACKER® FINISH WR 1200
- WACKER® FINISH WR 1300
- WACKER® FINISH WR 1600

Microemulsions:
- WACKER® FINISH CT 34 E
- WACKER® FINISH CT 96 E

Macroemulsions:
- WACKER® FINISH CT 45 E
- WACKER® FINISH CT 78 E

Concentrates:
- POWERSOFT® AE 61
- POWERSOFT® AE 66
- POWERSOFT® UP 68
- POWERSOFT® PE 280

For jet application:
- JETSOFT® CONCENTRATE (especially shear resistant)
MOISTURE MANAGEMENT: SO TEXTILES ARE SOFT AND ABSORBENT

Permanently soft and yet extremely absorbent textiles – our new generation of silicone softeners makes this property combination possible. Take a look for yourself.

Innovative Properties
Functional textiles have to meet ever higher demands. A good towel should be both wonderfully soft and hydrophilic. The same applies to modern clothing textiles: the wearer expects a soft hand combined with optimal moisture management. Only textiles boasting both properties can satisfy today’s increased demands for wearing comfort. Nowadays, no consumer will wear a garment which doesn’t feel good because it scratches or rubs, even if it offers perfect moisture control.

WACKER’s new silicone-softener generation, which combines and optimally balances these two finishing properties of softness and hydrophilicity, is impressive.

Special Features
The trend in modern textile finishing is definitely toward softness and hydrophilicity – a combination that is anything but obvious for silicone textile softeners. Silicone softeners typically impart an excellent soft hand, but the textiles are very poor absorbers of moisture when used for drying. Similarly, garments made of these textiles absorb only very little of the moisture generated by perspiration, making it difficult for the moisture to evaporate.

WETSOFT® NE is different: selective control of silicone-fiber interaction makes it possible to combine the contradictory properties of excellent silicone hand and hydrophilicity. The fabric’s enhanced moisture transport significantly improves the wearing comfort of textiles. Polyester fabric can be wetted with water, while cotton remains absorbent even after finishing.

Moreover, WETSOFT® NE has the added advantage of offering a much more permanent effect than conventional products based on aminoglycol silicones. It is, after all, a very special softener.

The Softener Range

![Diagram showing the softener range with various products and their properties]

WACKER® FINISH WR 210
WETSOFT® NE 810
WETSOFT® NE 820
WETSOFT® AE 310
WETSOFT® CTA

Unlimited combinations

WETSOFT® AE 310
WETSOFT® CTA
Efficient in Use
Our hydrophilic WETSOFT® NE silicone fluids disperse easily and can be applied by padding or exhausting. As WETSOFT® NE 810 and WETSOFT® NE 820 may be blended in any desired proportions, you can tailor the hydrophilicity and softness of your textiles to precisely suit your requirements. We also supply a ready-to-use macro-emulsion, WETSOFT® NE 230.

And because WETSOFT® NE generates a uniformly hydrophilic fiber surface, it is even possible to correct color errors during textile processing. This often cuts costs significantly.

Softeners with Little Risk of Yellowing
Yellowing is very often a problem when conventional softeners are used to finish white textiles. But WACKER has the right product for this application, too. WETSOFT® AE 200 makes your textiles ultrsoft and very hydrophilic, and yet has extremely little influence on color changes such as yellowing and red shift.

Alkali-Stable Softeners
Our range of hydrophilic softeners is completed by WETSOFT® NE 580, a self-dispersing microemulsion concentrate that gives textiles excellent absorbency and a very soft hand. Other properties may be taken for granted, such as the softener’s high stability in alkaline environments, at high temperatures or under high shear forces, as well as its straightforward processing and great versatility.

Wash-Resistant Softeners
WACKER can now offer a product innovation in the form of wash-resistant hydrophilic softeners. WETSOFT® WP 101 is a concentrate that gives textiles excellent absorbency and a very soft hand – properties that remain even after several wash cycles.

WETSOFT® WP 201 offers these characteristics as well, but its focus is on providing excellent slip properties. Both products have excellent exhaustion rates.

Product Solutions
Hydrophilic softeners:
WETSOFT® CTA
WETSOFT® AE 200
WETSOFT® NE 810
WETSOFT® NE 820
WETSOFT® NE 230
WETSOFT® NE 430
WETSOFT® NE 580
WETSOFT® WP 101
WETSOFT® WP 201
REPELLENCY MANAGEMENT:
SO RAIN GEAR IS PLEASANT TO WEAR

Dirt and water repellency are typical finishing effects in modern textiles. WACKER silicones offer novel opportunities in this field of application.

Water-Repellent and Breathable
One of the most important basic properties of silicones is their pronounced water-repellent effect. This property can be tailored to your requirements, thereby producing exactly the desired hydrophobic effect, by employing specific catalysts. A particular advantage here is that your textiles remain breathable despite the finish.

And it goes without saying that silicones also confer the traditional soft hand on your textiles. WACKER® FINISH WS 60 E, our specifically water-repellent product, is applied as an aqueous solution.

Dirt-Repellent and Soft
Systems containing fluorocarbons are generally considered the most effective dirt-repellent finishing agents. But fluorocarbons usually make textiles scratchy. WACKER offers you a completely novel softener that is suitable for blending with various fluorocarbons yet do not impair their oil repellency. Textiles finished with this WACKER softener have a much softer hand than that produced by fluorocarbon-containing systems on their own. Previously scratchy rainwear becomes pleasant to wear and doesn’t rub the skin at all. Please ask us about these innovations.

Product Solutions

Hydrophobic softeners:
WACKER® FINISH WS 60 E
ADVALON® HO 111

Fluorocarbon softeners:
POWERSOFT® FE 55
STRUCTURE MANAGEMENT: SO WOOL KEEPS ITS SHAPE

Our silicone-based wool-finishing softeners impart particularly useful properties, making for soft, noncrease woolen fabrics and garments that keep their shape and offer high wearing comfort.

Dimensionally Stable Wool

Our reactive silicones with SiOH and amino groups are able to react with themselves and with crosslinkers. The resultant three-dimensional network provides a wool finish that is characterized by resiliency, body, and the soft hand typical of silicones.

WACKER silicone elastomers provide the ideal finish particularly for single and double jersey, which is used mainly in high-quality textiles. The result is a soft and lustrous easy-care garment with enhanced elasticity and good stretch and shape-recovery properties. Combined with reactive resins, our silicones have the added benefit that washing does not affect their excellent shape retention and surface smoothness.

Resilient Fabrics with an Antipilling Effect

But silicone elastomers from WACKER are also perfect with respect to many other properties important for wool, such as antipilling, resilience and anti-crease performance. They prevent formation of the small fuzzy balls, or pills, so typical of woolen fabrics, and make for a soft, supple and pleasant hand. They also enhance elastic recovery and prevent bagging, which is again typical of woolen fabrics.

Product Solutions

WACKER® FINISH CT 27 E
WACKER® FINISH CT 34 E
WACKER® FINISH CT 78 E
WACKER® FINISH CT 95 E
Combinations of cotton and stretch yarn are highly fashionable, as are our silicones. For they create effects – such as stretch recovery and an elastic soft hand – in cotton knitwear without the addition of spandex fibers. Really very flexible.

**Elastic Hand**

POWERSOFT® CF 20 is a self-cross-linking, silicone-based microemulsion that provides cotton wovens and knitwear, as well as polyamide, with a very special elastic hand. This specialty WACKER softener increases elasticity by up to 100%. It can also noticeably improve stretch recovery, optimize crease recovery and reduce abrasion.

Our microemulsions also impart wash and-wear properties that find acclaim across the board. Exhaustive tests showed, for example, that cotton knitwear still retains 50% of its stretch after 25 washes. Efficiency you can count on.

**Flexible Processing**

POWERSOFT® CF 20 may be used on its own or combined with reactive resin. It is applied by padding or exhausting.

**Special Requirements**

WACKER also offers a number of additional products that fulfill specific stretch and slipping requirements right from the fiber production stage. Don’t hesitate to contact our specialists.
WELLNESS MANAGEMENT:
SO CLOTHING ALWAYS SMELLS FRESH

Fresh, fragrant textiles undoubtedly increase the wearer’s feeling of well-being. In textiles, CAVAMAX® cyclo- dextrins and CAVASOL® cyclodextrin derivatives are responsible for controlled fragrance release and simultaneous encapsulation of unwanted odors.

Freshness Effect
Cyclodextrins constitute an innovative aid in functional textile finishing, and are a genuine odor eater. Textiles finished with cyclodextrins are able to absorb unpleasant odors – clothing always smells fresh. The unpleasant, encapsulated odors are released in the wash, and the cyclodextrins are then free to absorb more odors.

It is also possible to store fragrances and finishing agents in bed linen, sportswear, hand towels, etc., until they are used. Only then are these substances released, at a controlled rate, and produce the desired feel-good effect.

Innovative Mechanism
The way cyclodextrins work is straightforward and yet innovative: ring-shaped cyclodextrin molecules form a cavity that is capable of holding and releasing other molecules. This revolutionary mechanism is the reason for the above-mentioned exceptional effects of cyclodextrins as textile finishes.

Versatile Applications
Finishes with CAVAMAX® cyclodextrins or CAVASOL® cyclodextrin derivatives can be used for a wide variety of textiles, including shirts, underwear, workwear, cushions, bed linen and sportswear, to mention just a few. Wellness effects, for example, are obtained with cyclodextrin compounds containing selected active agents, such as almond oil, avocado oil or vitamin E. On skin contact, the inclusion compounds slowly release their actives, thus producing their conditioning or revitalizing effect. Please call us for more information on our cyclodextrins.

Product Solutions
CAVAMAX® W7
CAVASOL® W7 HP TL
COLOR MANAGEMENT:  
SO COLORS ARE BRILLIANT

The versatility of silicones makes them compelling: in polyester fabrics, they combine a soft hand with color intensification effects; they prevent ozone fading in denim, and they permit color-intensive pigment printing. This makes for brilliant colors all round.

Silicones for enhancing color intensity:

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<th>Untreated</th>
<th>Reference</th>
<th>Using FINISH CT 9138 PES</th>
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Color-Intensive Polyester Fabrics

WACKER silicone softeners equip textiles with very special color intensity. Treating your polyester fabrics with WACKER® FINISH CT 9138 PES not only makes them silky-soft but also brings out the shade better. The colors appear fresher and more intensive.

In addition, the treatment results in an anti-thermomigration effect which noticeably reduces the thermomigration tendency of the disperse dye used.

Soft and Colorfast Denim Fabrics

In high-quality jeans not only the color is important, but also, in particular, a perfect fit and a soft hand. To give your jeans a soft finish we offer WACKER® JEANS SOFTENER 21 J, an exhaustible aminosilicone emulsion formulated specifically for denim. The emulsion is applied by padding or during the denim wash process, and confers a pleasant hand ideal for jeans.

Not only that. Our special jeans softener has more to offer: jeans stored on shelves, especially when the jeans are folded, tend to yellow at the folds or lose their typical color. This damage to the denim is caused by ozone fading and results in unwanted stripes. In WACKER® JEANS SOFTENER 21 J, we have a system that prevents the oxidative degradation of indigo dye by ozone and that guarantees permanent color fastness. Why not give us a call?

Brilliant Pigment Prints

Earlier printing methods usually involved applying the textile ink by means of a solvent. This technique produced brilliant, clear colors of the kind associated with oil painting. In today's applications, by contrast, water-based pigment pastes are preferred. These produce paler, more superficial colors. Expressed differently: without silicones, pigment prints lack the all-important intensity. Only the addition of our products to the pigment printing paste can fully bring out color effects such as luster, brilliance and clear print outlines in your textiles.

Silicones from WACKER are added to the pigment printing paste in the form of emulsions or oils, as appropriate. Once the textiles have been printed, the silicones form a thin film on the surface of the printed areas. This considerably reduces friction and pigment abrasion during use, so that fabrics retain their original brilliance and clear print outlines for longer.

Product Solutions

Polyester fabrics:
WACKER® FINISH CT 9138 PES

Denim:
WACKER® JEANS SOFTENER 21 J

Pigment printing:
WACKER® Fluid Emulsion C 800
WACKER® Fluid Emulsion C 802
Where the focus is on production speed, efficiency and reliability in the textile industry, it’s hard to beat our silicone processing auxiliaries. Take a look for yourself.

**Specialized Wetting Agents**

The ever-increasing production speed in the textile industry necessitates shorter contact between textile substrates and aqueous treatment liquors. This naturally calls for greater wetting and penetration power. Our special silicone wetting agents lower the surface tension of aqueous systems to approx. 20 mN/m.

At the same time, the hydrophilic properties of the silicone emulsions improve the adhesion of coatings to textile substrates such as polyester and polypropylene. Another application is the use of glycol-modified silicones as wetting agents for synthetic fibers.

**Effective Foam Control**

Foam is encountered in almost all the aqueous processing steps involved in textile manufacturing and finishing. It hinders the process and also impairs product properties. This costs time and money. Silicones, meanwhile, are known to be long-lasting compounds capable of producing various effects. On account of their low surface tension, for example, they can be formulated to highly effective antifoam agents.

The SILFOAM® product line from WACKER provides you with an innovative, effective and safe foam-control system. Our silicone-based antifoam agents regulate undesirable foam formation in textile production particularly well, for they neither combine with the foaming substances nor hinder the chemical processes. SILFOAM® can be used for process or product defoaming, as appropriate.

**Direct Process Defoaming**

Used as a process defoamer, SILFOAM® is added directly to the treatment liquor at regular intervals. There, our products regulate foam formation during the ongoing process and ensure that production runs smoothly. For your production process this means faster fiber manufacture and processing, faster dyeing and color design, and optimized space/time yields.

To offer maximum effectiveness, the silicones must have special properties – including excellent thermal and alkali stability and high shear resistance – which render them stable under production conditions. WACKER offers a broad range of silicone antifoam agents that either satisfy all of these requirements or are tailored to a specific stage in the production process.

This way, we can offer you a system geared to your particular production conditions, so that, for each stage of your process, you can use products with the ideal pH stability, thermal stability and shear resistance for your specific requirements. A customized system.

**Preventive Product Defoaming**

Used as a product defoamer, SILFOAM® is incorporated into a system or component, for example a textile auxiliary. The good thing is that the defoamer only becomes active when the product with a tendency to foam is used, thus optimizing your long-term product quality.

You will find more information on WACKER foam control solutions in our brochure on antifoam agents. Or call us to arrange a meeting.

**Product Solutions**

- WACKER® L 053
- WACKER® L 066
- Antifoam emulsions: SILFOAM® SRE, SILFOAM® SE 39, SILFOAM® SE 40, SILFOAM® SE 47
- Self-dispersing antifoam concentrates: SILFOAM® SD 771, SILFOAM® SD 850, SILFOAM® SD 100 TS
- Antifoam compounds for wetting-agent formulations: SILFOAM® SC 132, SILFOAM® SC 365

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SO YOU CAN RELY ON YOUR PRODUCTION PROCESS

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The Right Chemistry in Our Silicones

Their chemical structure makes silicones from WACKER ideal for the finishing of textiles with modern functional and fashionable properties.

Chemistry and Application

Our silicones imbue textiles with unrivaled properties. Since this can be varied greatly, we offer a customized solution for every textile effect.

Silicone softeners generally consist of linear aminopolydimethylsiloxanes with a viscosity of 100–100,000 mPa s (Fig. 1). Their basic units differ, for example, in the chain length, the number of functional side groups and the type of end groups (terminated or reactive).

The amino-functional side groups result in optimal distribution of the silicone on the fiber surface and thus ensure maximum softness (Fig. 2). Amino-functional silicone fluids impart a soft hand much more effectively than their methyl counterparts or silicones with carboxyl or epoxy groups. This is because the molecule’s partially protonated amino groups are able to interact with the negatively charged cotton fiber, for example. Additionally incorporated polyglycol side chains impart hydrophilicity as a further effect (Fig. 3).

Aminosilicones first have to be emulsified before they can be used in waterbased textile finishing processes such as padding, spraying, minimum-liquor application methods or jet and foam dyeing.

Structure and Mode of Action

At WACKER, we use the latest research findings to develop innovative product lines. For example, we base our products on information obtained from the analysis of the silicone polymer’s structure-effect relationships.

This mode of action can be explained in detail as follows: strong anchoring groups ensure that the silicone chains in the silicone copolymer are firmly anchored and distributed over the entire fabric surface (Fig. 2). Especially in the case of WETSOFT® NE 810, our hydrophilic softener, the polymer molecule is built up such that the hydrophilic chains end up on the fiber surface and thus ensure hydrophilicity and softness (Fig. 4).

The only thing that can be felt on the fabric surface is the silicone, while moisture can be transported unhindered along the fiber surface. This superior mode of action makes selective, customized moisture management possible without compromising the fabric’s soft hand.

Particle Size and Effect

Silicone emulsions can produce significant advantages with respect to the above-mentioned textile properties. Depending on the degree to which the silicone molecules crosslink, a wide range of different hands can be realized, from dry through oily to resilient.

Emulsions with different particle sizes can be prepared through use of customized formulations. The particle size determines whether the emulsions are transparent, opalescent or milky in appearance. In microemulsions, the particle size is less than 50 nm, and the emulsions are transparent. In macroemulsions, it exceeds 120 nm; these emulsions are milky.

Particle size has significant effects on the kind of hand produced by a textile finish. Microemulsions containing short-chain or crosslinked silicone fluid produce a lofty, soft, dry hand. In this case the microemulsion penetrates the fabric right down to the individual primary fibers; interfiber friction is reduced and the fiber takes on an inner softness (Fig. 5). This is deposited on the surface, where it generates surface softness. The typical characteristics are optimal smoothness, a supple hand, high resiliency and good sewing properties. Thanks to the more favorable active agent/emulsifier ratio here than in microemulsions, a greater quantity of silicone ends up on the fabric and the effect is more pronounced.

Application and Efficiency

Our products are suitable for application by standard techniques, for example padding and exhausting. And they bring appreciable cost savings in textile processing. The reason for this is that our new finishing agents produce a more uniform fiber surface. As a result, color errors can be corrected during textile processing without removing the silicone finish. Really innovative.
WACKER is one of the world’s leading and most research-intensive chemical companies, with total sales of €4.48 billion. Products range from silicones, binders and polymer additives for diverse industrial sectors to bioengineered pharmaceutical actives and hyperpure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer a high value-added potential to ensure that current and future generations enjoy a better quality of life based on energy efficiency and protection of the climate and environment.

Expertise and Service Network on Five Continents

Spanning the globe with 5 business divisions, we offer our customers highly-specialized products and comprehensive service via 25 production sites, 21 technical competence centers, 14 WACKER ACADEMY training centers and 52 sales offices in Europe, North and South America, as well as in Asia – including a presence in China.

With a workforce of some 16,000, we see ourselves as a reliable innovation partner that develops trailblazing solutions for, and in collaboration with, our customers. We also help them boost their own success. Our technical centers employ local specialists who assist customers worldwide in the development of products tailored to regional demands, supporting them during every stage of their complex production processes, if required. WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and reliable service to enable projects and orders to be handled fast, reliably and highly efficiently. Visit us anywhere, anytime around the world at: www.wacker.com

Our Silicones Service is Also Something Special

Customized solutions are often all-important in textile finishing. It goes without saying that, at WACKER, this also applies to service.

Customized Service
Our expert teams are always ready to help you with high-quality service, from product selection through to technical advice. We seek highly customized, effective solutions geared specifically to your finishing needs, and we continue until the ideal solution has been found. This may entail our advising you as to which of our many textile-finishing products is the most suitable for your particular application. Or we may assist you in developing and matching your products. Just as you wish.

Global Services
WACKER has its own production sites, technical centers and sales offices in many countries. Our textile-finishing products are not only globally available but are also tailored to local needs. You will find our consultants ready to help you in textile centers all over the world. They have detailed knowledge of local conditions and attend in person to your requirements – fast, flexibly and directly. That fosters trust.

Customized Product Solutions
WACKER’s portfolio of ready-to-use textile-finishing silicones is extremely diverse. And you can make it even more diverse. After all, we can create special effects by combining our silicone products with other chemicals in new formulations.

Sustainable Product Solutions
WACKER considers itself part of the textile chain. We therefore attach great importance to sustainability, environmental protection and the optimum ecological compatibility of our product solutions. This naturally includes our assurance that our silicones do their intended job properly. Something you can rely on.

Reliable Logistics Solutions
WACKER works exclusively with certified, highly qualified and modern logistics service providers. To underscore our dependability as a supplier, we record and monitor all transport routes within this global logistics network. In addition, we operate local warehouses in many places. For you, this means short delivery times, direct delivery routes and absolute reliability.

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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 on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made 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.