Wacker Chemicals Takes Root in China for Continuous Innovation
CREATING INNOVATIVE CHEMICAL SOLUTIONS FOR CHINA’S SUSTAINABLE GROWTH

Xi’an’s Bell Tower was built by the first Ming emperor Zhu Yuanzhang to protect the town’s royal status. WACKER SILRES® BS stone strengthener helps the building withstand wind and rain, preserving its historic appearance.
MESSAGE FROM THE PRESIDENT

WACKER is an international corporation at the global forefront of silicon and ethylene chemistry, with strong roots in the China market on the back of constant product innovation and leading technologies. As a global company with German heritage and over a century of successful experience, we believe that the concepts of “partnership” and “sustainable development” will help us to grow with our Chinese customers and partners. Wacker China has already carved out a solid niche in the local market, and China has become WACKER’s top market worldwide.

Throughout over two decades of development in China, we have explored and introduced innovative products suitable for the China market, striving to help raise quality of life, support the industry upgrading and improve the natural environment. An ambitious vision such as this can only be achieved through joint efforts with our partners. From household products to new energy applications, from the construction of the Beijing Olympic Stadium to the Hong Kong-Zhuhai-Macao Bridge, WACKER products can be found everywhere and are profoundly influencing and changing our lives.

Our dedication to innovation, local development and sustainability embodies WACKER’s core values, and I believe it is our commitment to these core values that has won us the trust and recognition of those we do business with. I would like to take this opportunity to thank our customers, our business partners, the communities we operate in, and government officials at all levels for their continued trust and support.

This long-standing commitment remains with us. In the future, we will continue to invest our energies into the pursuit of sustainability, and proactively contribute to the overall development of China.

Paul Lindblad
President
Wacker Chemicals (China) Co., Ltd.

Cover page: Dubbed the “Bird’s Nest”, the National Stadium is the most prominent new structure in Beijing’s Olympic city. WACKER silicone masonry protection agent can protect the stadium stands against weathering and industrial pollution. VINNAPAS® polymer powders help enhance the leveling and abrasion resistance of the parking lot flooring.
WACKER is one of the world’s leading and most research-intensive chemical companies, with total sales of €4.93 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.

Spanning the globe with 4 business divisions, we offer our customers highly-specialized products and comprehensive service via 24 production sites, 23 technical competence centers, 14 WACKER ACADEMY training centers and 51 sales offices in Europe, North and South America, and Asia – including a presence in China.

With a workforce of some 14,700, 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 competence 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

All figures are based on fiscal 2019.
A WELL-BALANCED PORTFOLIO

WACKER SILICONES
Proactive Partner for Customer Solutions
WACKER SILICONES is one of the largest silicone manufacturers worldwide with over 2,800 highly specialized and innovative products. The division’s portfolio ranges from silicone fluids, emulsions, resins, elastomers and sealants to silanes, silane-terminated polymers and pyrogenic silica. These stand out due to their significant value-adding potential – enhancing both the benefits and performance of customers’ end products. WACKER SILICONES’ products find application in such sectors as automotive engineering, construction, chemicals, cosmetics, medical technology, energy and electronics and paper and textiles.

WACKER POLYMERS
Technologically Strong and Close to its Markets
WACKER POLYMERS is a leading producer of state-of-the-art binders and polymeric additives based on polyvinyl acetate and vinyl acetate copolymers and terpolymers. These take the form of dispersible polymer powders, dispersions, solid resins, and solutions. They are used in construction chemicals, paints and surface coatings, adhesives, sealants, carpet applications and nonwovens, as well as in fiber composites and polymeric materials based on renewable resources.

WACKER POLYSILICON
The Hyperpure Silicon Expert
WACKER POLYSILICON is a global leader in the production of hyperpure polysilicon. Its polysilicon – which is used in semiconductors and the growing solar market – meets the extremely high quality standards required by customers in these application areas.

WACKER BIOSOLUTIONS
Tailored Solutions and Comprehensive Service
Using advanced biotech processes, WACKER BIOSOLUTIONS provides tailored, innovative solutions and products to the life-science sector – including pharmaceutical proteins, cyclodextrins and fermentation-generated cysteine. Its portfolio is also complemented by catalog chemicals, such as acetylacetone and high-quality polyvinyl acetate solid resins. The division focuses on developing customized solutions for growth sectors, such as food ingredients, pharmaceutical actives and agrochemicals.
SOLUTIONS AND INNOVATIONS FOR A BROAD RANGE OF SECTORS

Construction

Coatings & Paints

Healthcare

Consumer Care

Textile, Leather & Nonwovens

Automotive & Transport

Paper, Films & NIP

Adhesives & Sealants

Renewable Energies

Food

Energy, Electrics & Electronics

Get more information on the WACKER tradeshows:
www.wacker.com/tradeshows
INNOVATION MEANS CONSTANTLY SURPASSING TRADITION
POWERFUL R&D CAPABILITIES

By spending over 3% of sales on R&D in the past few years, WACKER ranks as one of the most research intensive companies in the chemical industry. Our activities span the classic fields of catalysis, organic synthesis and polymers, as well as new sectors such as silicon research and biotechnology.

WACKER has over one hundred years of experience in the industry, and has always looked to ‘Innovation’ as our cornerstone concept for development and growth. In 1903, Dr. Alexander Wacker founded the Consortium für elektrochemische Industrie – an innovative forum for scientists driven by curiosity, creativity and inventiveness. The success of the Consortium’s research with the production acetaldehyde technologies led to the establishment of Wacker Chemie in 1914.

Throughout the past century, WACKER has worked to develop new materials and processes that are of direct benefit to both customers and society at large. We developed the first safe industrial method for producing vinyl acetate monomer and its derivative polymers in 1921. Dispersible polymer powder was invented in 1957, leading to revolutionary clean and reliable construction methods for the modern building industry. In recent years, WACKER created an efficient and more environmentally friendly fermentive production method for making cysteine from plant-based raw materials.

WACKER Group’s innovation relies on internal R&D and developing external cooperation networks. The Group has established a comprehensive innovation network that links the Consortium to divisional innovation units and regional technology centers. With the strong support of this innovation network, WACKER has closely collaborated with universities and scientific institutions to continually bring value added and increasingly competitive products to our customers. WACKER holds around 4,200 active patents and about 1,600 pending patent applications. 85 to 100 new patents have been applied on inventions annually during the last five years.

Being determined to innovate has always been an important factor in WACKER’s success. With our global perspective, we constantly explore new materials and new technologies. With our innovative products and solutions, we create value for local customers.
One of WACKER’s greatest strengths is its integrated production system, which is primarily based on silicon and ethylene as starting materials. Our production is highly integrated throughout the entire supply chain, successfully boosting the efficiency of resources and energy use to minimize the impact on our environment. We optimize efficiency by combining, processing and recycling the raw materials. Byproducts are usually further processed immediately or used in another production area.

Based on five key raw materials, our integrated production system enables us to manufacture over 3,200 products. This unique production strategy conserves resources and energy, provides us with cost advantages, and ensures seamless monitoring and control for our customers throughout the entire material loop – from the raw material to the finished product.
DEVELOPING SUSTAINABLE PRODUCTS TO MEET FUTURE TRENDS

Facing a series of global challenges, such as scarcity of fossil energy sources, diminishing raw materials, and climate change, WACKER has started to explore more emerging fields, sifting through a world of possibilities to find products and solutions that are cleaner, more efficient, safer, so as to cater to increasingly demanding lifestyle and ecological needs.

**Electric Vehicles (EV)**

Today, the global automotive industry is moving into an era of high-speed electrification. Thanks to their excellent long-term reliability, WACKER’s silicones have long been the materials of choice for conventional automotive electronics where they are responsible for critical functions such as bonding, sealing, potting and coating protection. Compared to conventional cars, electric vehicles are equipped with additional components such as battery, motor and control system. These components bring higher power density, which accordingly leads to higher electrical and thermal loads. With excellent heat resistance, WACKER’s silicones have proven to fulfill the requirements for heat dissipation and thermal management of key components in electric vehicles and protect sensitive electronics, while enabling functional safety and a fast, easy and affordable production process.

**New Energy**

Solar energy is a new type of clean energy that has developed rapidly in recent years. The development of the photovoltaic industry relies heavily on its basic material, polysilicon. As one of the world’s leading polysilicon manufacturers, WACKER has further optimized the rod deposition process for producing solar grade silicon to meet the requirements of the photovoltaic sector’s cost and purity criteria. At the same time, we have developed a novel process that produces silicon granules from trichlorosilane in a fluid bed. These silicon granules perfectly complement our existing product portfolio and are being put to use in new crystal-growing applications for solar technology.

In addition, WACKER has developed silicone elastomers for the production of high-performance optical lenses and modules, designed specifically for high-concentration photovoltaic (HCPV) systems, which make the primary optical device of concentrators more reliable and durable.

Wind parks generate zero emissions and have minimal environmental impact. The functionality of wind turbines relies on high-quality composite additives. As a leader in additive technology, WACKER produces four groups of additives for composite manufacturing: Vinnapas® solid resins work as low-profile additives, HDK® pyrogenic silica controls the viscoelastic flow behavior, Geniosil® silanes improve the strength of the composites DMAA and DEAA, and acetylacetone controls the curing of room-temperature curing composites.

**Increasing environmental awareness**

Increasing environmental safety awareness has made environmentally friendly products popular. Specific solvent-free Vinnapas® dispersions from WACKER are ideal for environment-friendly indoor paints: fewer odors, low volatile organic compounds (VOC), formaldehyde-free and plasticizer-free. By the same token, WACKER water-based Dehesive® silicone release agents make the labels on consumer products safer.

Increasing environmental awareness also calls for energy-conservation and emissions reduction. Buildings and houses equipped with appropriate exterior insulation and finish systems (EIFS) can save energy by up to 60%. WACKER’s Vinnapas® polymer powder is a major component of the specialty mortars used in these systems, while Silres BS® silicone resin is responsible for the durability of the EIFS coatings.

**Rising living standards**

WACKER uses biotechnology to produce cyclodextrins and L-cysteine, which are used to improve food and nutraceutical products and to enable innovative products. Innovation examples are cholesterol-free dairy products, a soluble dietary fiber with an approved EU Health claim about reduction of blood sugar levels and vegetarian cysteine. The products are manufactured with high food standards and have the potential to become a mainstream trend in the food industry.
The Middle Ring Highway is not only a key route in Shanghai’s vast transportation network, it is also important in defining Shanghai’s urban landscape. The imposing thoroughfare is rendered water repellent using silicone masonry protection agents from WACKER.
THE JOINT DEVELOPMENT OF WACKER CHINA AND THE CHINA MARKET

WACKER’s association with China goes back to 1926. In the middle of the last century, our achievements in the chemical sector saw greater introduction of WACKER products (silicones, polysilicon, and hyper-pure silicon wafers) into the Taiwan, Hong Kong and Mainland China markets. By virtue of their outstanding quality and technical superiority, WACKER products soon gained a strong reputation in a wide range of application fields.

WACKER formally entered the China market in 1993, establishing sales offices and progressively building up a strong presence that has all the essential components of a fully-fledged chemical company, ranging from local R&D and production through to comprehensive customer service. We now have three manufacturing sites (in Zhangjiagang, Nanjing and Shunde), two technical centers (in Shanghai and Shunde) and seven sales offices (in Shanghai, Beijing, Guangzhou, Chengdu, Shunde, Hong Kong and Taipei).

Over the past two decades, WACKER has continued to develop local teams, gain greater insights into local market needs, form close cooperative relationships with local customers, and provide more innovative, high quality products and technical solutions to meet the diversified needs of our customers. Today, WACKER maintains market-leading positions in all of the company’s business sectors in China, which is now WACKER’s largest global market.

China is the WACKER Group’s largest market. It is our mission to develop local production, R&D efforts, and train local talent so that we get closer to Chinese customers and better satisfy the market demands.

WACKER DEVELOPMENT IN CHINA MILESTONES

1993 Taipei sales office opens
   Hong Kong sales office opens
1995 Opening of sales offices in Shanghai and Guangzhou
1998 New sales offices in Beijing and Hsinchu
2000 First regional technical center is set up in Shanghai
2003 Regional headquarters moves from Hong Kong to Shanghai
2004 WACKER begins silicone emulsion production in Shanghai
2005 PVAc production begins in Wuxi
   Launch of dispersible polymer powders production in Zhangjiagang
   Launch of joint venture with Dymatic Chemical Inc.
2006 Production of downstream silicone products (silicone rubber & sealants) begins in Zhangjiagang
2008 Silicone emulsion and pyrogenic silica production begins in Zhangjiagang
2009 Inauguration of dispersible polymer powder and VAE dispersions production site in Nanjing
2010 Commissioning of new silicone polymers production facility in Zhangjiagang
   Sales office sets up in Chengdu
   Inauguration of WACKER and partner’s joint large-scale integrated silicone manufacturing site in Zhangjiagang
2011 Establishment of R&D teams in both the SILICONES and POLYMERS divisions of China
2012 Opening of WACKER Shanghai Center in Shanghai Caohejing Hi-Tech Park
2015 Commissioning of PVAc plant in Nanjing
2019 WACKER Shanghai Center Expansion is completed with a new lab for food applications, and new competence centers for e-Mobility as well as Cement and Concrete
WACKER continues to increase investment in the manufacturing sites in China, and is committed to rapidly responding to special demands from the market and customers while helping them save on cost and improving efficiency. WACKER’s world-class manufacturing sites in China further consolidate our position as a leading supplier in the silicone and polymer chemistry fields, and enable us to better fulfill our commitment to customers and society.

STRONG LOCAL PRODUCTION CAPABILITY TO BETTER MEET THE NEEDS OF THE CHINA MARKET

Zhangjiagang Integrated Silicone Manufacturing Site
Zhangjiagang site mainly supplies the fast-growing Asian markets with WACKER silicone products ranging from silicone sealants, rubbers emulsions and polymers to silicone intermediates and fluids.

WACKER also has two joint ventures for siloxane and pyrogenic silica. With a combined capacity of approximately 210,000 metric tons, these two upstream facilities are regarded as the largest of their kinds in China. The overall investment of Wacker and its joint venture partner in Zhangjiagang has reached USD1.8 billion.

The Zhangjiagang integrated silicone production site features the latest EHSS (environment, health, safety & security) practices and integrated production technology. The siloxane plant supplies chlorosilane as a raw material for pyrogenic silica production, while the pyrogenic silica plant then sends back its byproduct hydrogen chloride for the production of siloxanes. Not only does this integrated production technology play a role in cutting logistical costs and improving production efficiency, it also helps energy conservation, emissions reduction and environmental protection.

With the completion of Zhangjiagang integrated silicone manufacturing site, WACKER has ensured its silicone supply capacity and competitive edge in China.
Nanjing Polymer Manufacturing Site
Situated in the Nanjing Jiangbei New Materials High-Tech Park, WACKER’s world-scale polymer site started operation in December 2009. By now, WACKER’s investment in Nanjing site totaled to €100 million. Products from this site include VINNAPAS® dispersible polymer powders, vinyl acetate-ethylene copolymer (VAE) dispersions and polyvinyl acetate (PVAc) solid resins. VINNAPAS® dispersible polymer powders are high quality binders for modern dry-mix mortar. They are widely used in diverse building applications such as exterior insulation and finish systems, tile adhesives, self-leveling flooring compounds, etc. VAE dispersions, on the other hand, serve a wide range of industries ranging from adhesives, nonwovens, paints and coatings, to building products, paper, carpet and textiles. PVAc solid resins are mainly used to produce chewing gum base.

So Far, WACKER Nanjing site could possess an annual capacity of 60,000 metric tons of dispersible powder, 160,000 metric tons of VAE dispersions and 20,000 metric tons of PVAc solid resins, and currently is the largest of its kind in China. The expansion of the Nanjing site will also reinforce WACKER’s position as one of the world’s leading manufacturers of dispersible polymer powder, polymer dispersions and PVAc solid resins.
Located in the Caohejing Hi-tech Park, the WACKER Shanghai Center (a regional headquarter in China) occupies an area of 10,000 m², and was commissioned at the end of 2012. As a major component of the Group’s global technological innovation network, the WACKER Shanghai Center houses numerous laboratories for R&D and applications technology, and is equipped with all the latest instruments and equipment. Its purpose is to serve a wide range of industries, such as construction, coatings, automotive manufacturing, textiles, cosmetics, paper and food. The center serves as a powerful platform for WACKER’s silicone, polymer and biosolution experts to adapt and develop products tailored to the specific requirements of the Chinese market.

Bundling R&D, marketing, finance, sales and administration under one roof enables closer teamwork between the respective departments, resulting in optimum customer support. In order to serve the needs of China and other regions for innovative products and new applications, WACKER has also established Competence Centers respectively for Consumer Care, e-Mobility and Cement & Concrete in China. WACKER Shanghai Center’s strong technological innovation ability and efficient service capability allows us to strengthen our collaboration with customers, and further consolidate and expand our market-leading position in high quality silicone and polymer products and technology.

WACKER SHANGHAI CENTER – A POWERFUL PLATFORM FOR SERVING LOCAL CUSTOMERS
WACKER ACADEMY - AN INNOVATIVE TRAINING PLATFORM FOR CUSTOMERS, PARTNERS AND EMPLOYEES

The WACKER ACADEMY adheres to the philosophy of boosting industry development and sharing professional knowledge and experience. It creates communication platforms for customers and partners and offers them an opportunity to broaden their horizons. Whether at the WACKER ACADEMY at our headquarters in Burghausen, or at the many branch academies in key regions around the world, all training activities are closely connected to WACKER Technical Centers. All personnel participating in training have opportunities for onsite observation and hands-on practice, which is the essence of the WACKER ACADEMY.

The training courses of WACKER ACADEMY have always placed importance on innovation and change, and therefore we constantly adjust course content based on the latest market trends and the needs of customers.

A branch of the WACKER ACADEMY was established in China in 2007. Offering local-focused and market-tailored trainings in applications, market development and quality management for local customers, distributors and strategic partners, the WACKER ACADEMY aims to share and spread WACKER’s experience and technology, and to assist in the growth of local partners and industries.

View more WACKER ACADEMY training courses in China: www.wacker.com/wacker-academy
SUSTAINABLE DEVELOPMENT - THE DRIVER OF WACKER’S GROWTH AND SUCCESS
ACTIVELY PROMOTING SUSTAINABLE DEVELOPMENT

As a globally active company, WACKER emphasizes a balance between economical, ecological and social goals. We believe sustainability is an engine for economic growth and success around the globe. This is the only way for a multinational company to remain viable within the global economy and be responsible toward society and the environment.

Moreover, WACKER abides by the concepts of sustainable production, resource and energy conservation, and waste avoidance in developing environmentally sound solutions for our customers.

Integrated Management System
WACKER’s Integrated Management System (IMS) is the Group’s most comprehensive management tool for maintaining sustainable business practices. The IMS regulates workflows, process responsibility and accountability within the framework of our productivity, quality, health, safety and environmental principles. The IMS is based on statutory regulations, our commitment to Responsible Care®, and on recognized national and international standards. It encapsulates the strategies, goals and activities at WACKER that ensure satisfied customers, satisfied shareholders, satisfied employees and a satisfied public.

Responsible Care®
Responsible Care® is the global chemical industry’s environmental, health and safety initiative to drive continuous improvement in performance. WACKER is a signatory of the Responsible Care® global charter. In May 2008, Wacker Chemicals China also signed the Responsible Care® Beijing Manifesto. Under this Manifesto, WACKER is not only committed to continuous improvement of our environment, health and safety performance and an open dialogue with our stakeholders, but also to sharing best practices with the Chinese chemical industry and to providing industrial solutions for some of the society’s most important challenges. WACKER strictly follow the rules of Global Chemical Industry Responsible Care®, and to protect the environment, employees and society with the higher standard than the law.
Building an outstanding localized team to support long-term growth is one of WACKER’s strategies in China.

A company with a long tradition of sustainability and a strong sense of responsibility, WACKER’s long-term commitment to employees lies not just in its comprehensive care, which spans career planning, safety and health, but also in closely linking the company’s sustainable development with the individual development of employees. We create a good work environment that offers active career development and smooth communication channels with supervisors, so that all employees can fulfill their maximum potential.

In China, WACKER has been recognized as “Top Employer” and “100 Best Human Resource Management (HRM) Companies” for several times.
OUR COMMITMENT TO BEING A RESPONSIBLE CORPORATE CITIZEN

Companies can only be commercially successful if they have the trust and support of society, which is why WACKER is committed to building a sustainable partnership and integrating itself into China’s economic and social development. WACKER takes its corporate social responsibilities as a global operating company very seriously. Currently, we are running the following CSR programs in the China region:

WACKER Help, a charity organization sponsored by both WACKER China employees and the company, was established in early 2005, with its main direction being to support education for needed children. WACKER HELP conducts long term reading-together program in Shanghai Children’s Home and helps to sort books in its library. WACKER HELP also supports China Development Research Foundation’s One Village On Preschool project to promote preschool education to children in poor rural areas. In addition, WACKER HELP had donated 17 libraries and 1 Music Room in China.

As a member of the Association of International Chemical Manufacturers (AICM), WACKER has actively participated in public open days, where WACKER opens its Zhangjiagang and Nanjing manufacturing sites to representatives of society, to showcase our sustainable development practice.
The Hong Kong-Zhuhai-Macao Bridge is the longest open-sea fixed link on earth. WACKER’s silance cream product is used for the corrosion protection of the parapet walls on its artificial islands, making them more durable.
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