

PRESS RELEASE

Number 39

International Automotive Electronics Technology Expo 2019 WACKER and Fuji Polymer Industries Announce Close Collaboration on Silicone- Based Thermal Interface Materials

Munich / Nagoya, December 17, 2018 – Munich-based chemical group WACKER and Japan-based Fuji Polymer Industries announced to intensify their collaborative work on the development of innovative thermal interface materials today. To this end, Fuji Polymer Industries, a leading Japanese manufacturer of silicone rubber products, will use WACKER's room-temperature-curing ELASTOSIL® silicones for manufacturing novel silicone-based heat-conducting components. The companies will closely collaborate on developing high-efficiency thermal interface products for electronic devices and for batteries in electric vehicles. Components based on ELASTOSIL® will be presented at the 11th International Automotive Electronics Technology Expo 2019 in Tokyo, Japan, which starts on January 16.

WACKER and Fuji Polymer Industries are leading manufacturers in the field of silicone-based thermal interface materials (TIM) for industrial applications, but have different product offerings. Whereas WACKER, as a silicones producer, supplies non-crosslinked paste-like silicones in the form of gels, adhesives, sealants or encapsulants for liquid metering, Fuji Polymer Industries produces ready-to-use

silicone elastomer parts, such as contact mats, films and pads, for electronics and automotive component manufacturers.

Fuji Polymer Industries and WACKER will now intensify and broaden their collaboration. "Both companies are experts and possess unique knowledge, how to formulate and process thermally conductive silicones: WACKER in the field of liquid systems, Fuji Polymer in ready-to-use components," says Christian Gimber, head of Engineering Silicones at WACKER SILICONES. "In future, we will intensify our collaboration in order to be able to develop innovative materials that meet the constantly growing demands of the electronics and automotive industries. The collaboration we have now embarked on will go far beyond this expo."

At the upcoming 11th International Automotive Electronics Technology Expo in Tokyo, Fuji Polymer Industries will already exhibit the first fruits of this collaboration. "Electronic devices and batteries generate a great deal of heat that impacts their functionality and service life and can lead to serious faults. Efficient thermal management is therefore increasingly essential in many applications, such as in consumer electronics and electric vehicles," says Gimber. For improved thermal management of components, the industry is increasingly turning to heat-dissipation materials, continues the WACKER manager. "Our thermally conductive silicones can be processed very efficiently, but that is not the only benefit of silicones. They also meet the stringent and rising safety and reliability requirements imposed by the electronics and automotive industries."

Fuji Polymer Industries, too, will benefit enormously from the development partnership. "We have been very much looking forward

to this collaboration which is very important for us. WACKER's technical expertise is an invaluable resource and is extremely helpful when developing new products," says board member Mitsuhiro Fujimoto. Fuji Polymer Industries will also use WACKER's "Based on ELASTOSIL®" logo for branding its high end silicone based thermal interface materials. "This co-branding is another significant benefit for the company in terms of quality awareness," emphasizes Fujimoto. "The partnership with WACKER is therefore a genuine win-win situation for us and fills us with a great deal of pride."

WACKER and WACKER SILICONES

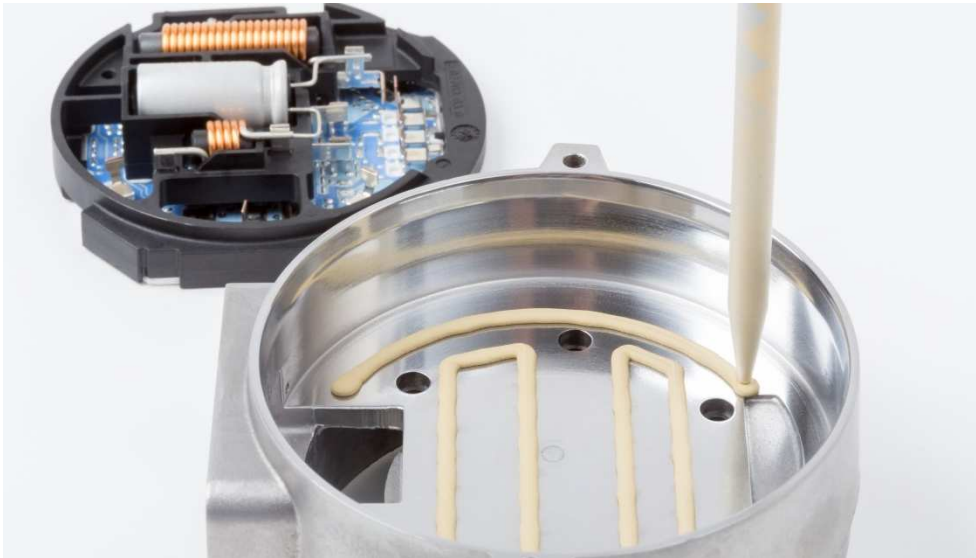
WACKER (www.wacker.com) is a globally active chemical company headquartered in Munich, Germany. Its products are required in countless high-growth end-user sectors, such as photovoltaics, electronics, pharmaceuticals and household/personal-care products. In 2017, the Group generated sales of some € 4.92 billion. WACKER currently employs around 13,800 workers. Founded in 1914, the Group currently operates 23 production sites, supplying over 3,200 products to more than 3,500 customers worldwide.

The Group's WACKER SILICONES business division 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.

Fuji Polymer Industries

Fuji Polymer Industries is leading in the design, formulation and production of high performance thermal interface materials, electrical elastomeric connectors, customized silicone extrusions and uniquely fabricated silicone products for the electrical, electronics and automotive industries. The company's product portfolio includes electrical connector systems, light guide elements, extruded and press-molded parts, as well as thermally conductive materials made from silicone. Headquartered in Nagoya, Japan, the company employs some 700 workers and operates a global network of nine manufacturing and distribution centers, catering to customers in the USA, in Europe and in Asia.






Thermally conductive silicones are indispensable for effective cooling of electrical components. The Munich based WACKER Group supplies non-crosslinked paste-like silicones in the form of gels, adhesives, sealants or encapsulants for liquid metering. (Photo: WACKER)



Fuji Polymer Industries' SARCON® Thermal Gap Filler Pads are highly conformable, high-heat conducting gel materials in a versatile sheet form. They easily fit and adhere to almost all component shapes and sizes, including protrusions and recessed areas. (Photo: Fuji Polymer Industries)

For further information, please contact:

Wacker Chemie AG
Media Relations & Information
Florian Degenhart
Tel. +49 89 6279 -1601
florian.degenhart@wacker.com
www.wacker.com
follow us on:   

The Company in Brief:

WACKER is a globally-active chemical company with some 13,800 employees and annual sales of around € 4.9 billion (2017). WACKER has a global network of 23 production sites, 21 technical competence centers and 50 sales offices.

WACKER SILICONES

Silicone fluids, emulsions, rubber grades and resins; silanes; pyrogenic silicas; thermoplastic silicone elastomers

WACKER POLYMERS

Polyvinyl acetates and vinyl acetate copolymers and terpolymers in the form of dispersible polymer powders, dispersions, solid resins and solutions

WACKER BIOSOLUTIONS

Biotech products such as cyclodextrins, cysteine and biologics, as well as fine chemicals and PVAc solid resins

WACKER POLYSILICON

Polysilicon for the semiconductor and photovoltaic industries