Press release

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Oil-exuding and coolant resistant: WACKER showcases a new silicone rubber for e-mobility applications at FAKUMA

- ELASTOSIL® LR 3822 is an oil-exuding liquid silicone rubber developed for connector seals in the cooling system of traction batteries.
- Lubricating film facilitates machine assembly.
- Low compression set ensures a high sealing effect.

Munich – For the first time, WACKER will be presenting an oil-exuding liquid silicone rubber with coolant resistant properties at FAKUMA, the 30th international trade show for plastics processing, starting October 12 through 16. ELASTOSIL® LR 3822 was specifically designed for applications in the field of e-mobility with a focus on connector seals and sealing elements in the cooling circuit of EV traction batteries. Molded parts made of the new liquid silicone rubber show a low compression set and high resilience. This makes it possible to manufacture sealing elements with high sealing performance.

ELASTOSIL® LR 3822 offers processors a wide range of benefits. For example, the crosslinked elastomer continuously releases silicone oil from its surface. This creates a lubricant film that facilitates the machine assembly of molded parts significantly. The silicone is also extremely durable and tear-resistant. After curing, the silicone rubber can be stretched by 270 percent without cracks or damage. Another advantage is its superior low-temperature flexibility. The elastomer retains its elasticity even at temperatures as low as –45°C.

The new liquid silicone rubber is the first oil-exuding product that also offers high coolant resistance. Tests show that the silicone maintains most of its mechanical properties even after being stored for 1,000 hours in a glycol-water mixture at 125 °C. This becomes especially evident when examining its compression set. This test records the ability for rubber parts to return to their original thickness after prolonged pressure stresses. With a compression set of 44 percent, sealing elements made of ELASTOSIL® LR 3822 have sufficient resilience to ensure a consistently high level of sealing performance in the seal groove during operation. This makes the product the ideal material for elastic seals in the field of e-mobility.

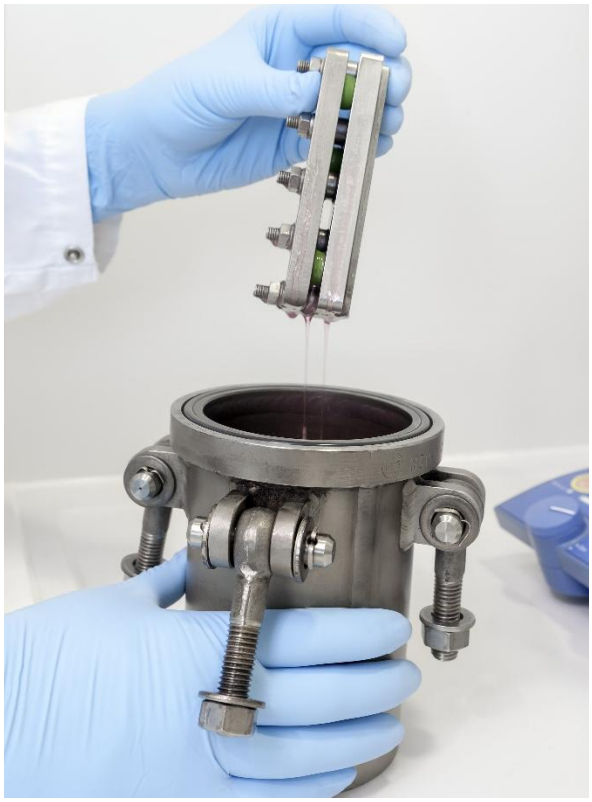
ELASTOSIL® LR 3822 has a Shore A hardness of 60, a specification commonly used in the sealing segment. Possible applications include weather packs or sealing elements in the cooling circuit of electric-vehicle batteries.

Curing-free silicone rubber with self-adhesive properties

At FAKUMA, the WACKER Group is also showcasing a curing-free silicone rubber with self-adhesive properties. Available under the name ELASTOSIL® LR 5471, the product cures into a silicone elastomer with an extremely low volatile content. This allows hard-soft composite components to be used in the food and medical sectors as well as in baby care without the need for thermal post-treatment. For details, please visit our website and download our press release as of September 7, 2026 (www.wacker.com/pressreleases).

Visit WACKER at FAKUMA 2026 in Hall A6, Booth A6-6212.

At FAKUMA, the WACKER Group will be showcasing ELASTOSIL® LR 3822, an oil-exuding liquid silicone rubber that offers high resilience and tear resistance. The product was specifically developed for the manufacture of coolant-resistant sealing elements (red) in the cooling circuit of EV traction batteries. (Source: WACKER)



In order to test the sealing performance of ELASTOSIL® LR 3822, samples were stored in a glycol-water mixture at 125°C under high contact pressure. Compression set after 1,000 hours was 44 percent. This ensures that the silicone elastomer in the seal groove is sufficiently leak-proof. (Source: WACKER)

Please note: This press release and the accompanying photo are available for download on the WACKER website (www.wacker.com) under media: http://www.wacker.com/pressreleases

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The company in brief
WACKER is a global company with state-of-the-art specialty chemical products found in countless everyday items, with applications ranging from tile adhesives to computer chips. The company has a global network of 27 production sites, 22 technical competence centers and 47 sales offices. With more than 16,000 employees, WACKER generated annual sales of around € 5.5 billion in fiscal 2025.

WACKER operates through four business divisions. The Silicones and Polymers chemical divisions supply products (silicones, polymeric binders) for the automotive, construction, chemical, consumer goods and medical technology industries. Biosolutions, the life sciences division, specializes in bioengineered products such as biopharmaceuticals and food additives. Polysilicon produces hyperpure polysilicon for the semiconductor and photovoltaic industries.

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