

# PRESS RELEASE

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## K 2010

### WACKER Presents New Silicone Elastomers with Low Compression Set for the Automotive Industry

**Munich, June 14, 2010 – ELASTOSIL® LR 3092/65 and ELASTOSIL® R *plus* 4060 are two new silicone products for the automotive industry which WACKER, the Munich-based chemical company, will present at the 18th International Trade Fair for Plastics and Rubber (K 2010). Both product innovations have a very low compression set and high heat resistance and consequently make ideal sealing materials, for example in intercoolers. In addition, spark-plug boots made of ELASTOSIL® R *plus* 4060 afford optimum protection against moisture and water splashes even at high temperatures. K 2010 will take place from October 27 to November 3 in Düsseldorf, Germany.**

Exhaust-gas turbochargers could be considered the heart of modern diesel engines, because they substantially boost engine power and torque. A key element here is the intercooler, which is placed between the turbocharger and the engine. It lowers the high temperatures resulting from compression of the intake air and ensures that a greater mass of air and thus of oxygen is routed to the cylinders.

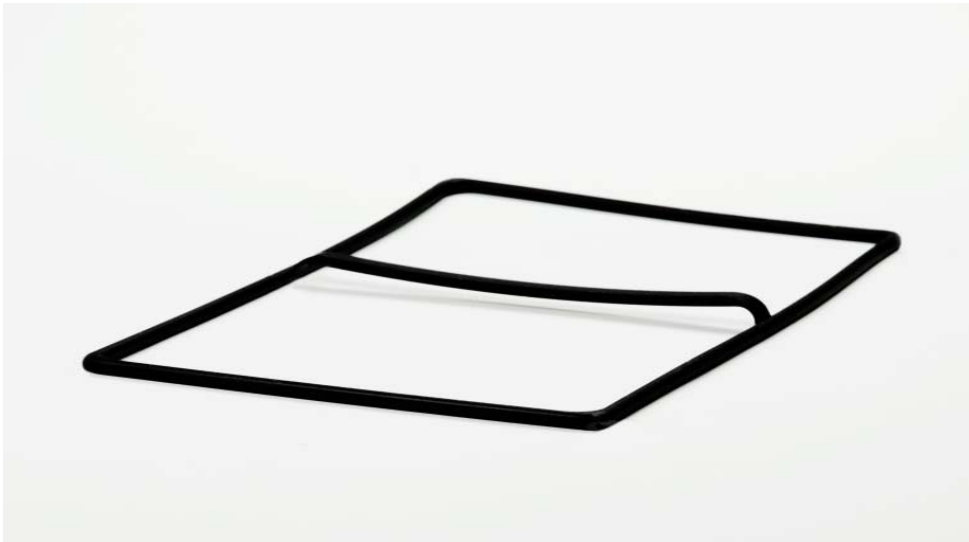
For the intercooler to do this job properly over the engine's lifetime, it requires a seal with minimal compression set. This is where the new

ELASTOSIL® LR 3092/65 and ELASTOSIL® R *plus* 4060 silicone elastomers come in. ELASTOSIL® LR 3092/65 is a rapid-cure, two-component liquid silicone rubber that can withstand temperatures of up to 220 °C. By contrast, ELASTOSIL® R *plus* 4060 is a one-component solid silicone rubber that has the same basic properties, but can take even more heat. Both products have very low compression set and can be injection molded.

A further application is the membrane used for controlling the charge pressure in the turbocharger with the aid of an actuator. The latter prevents a pressure overload in the cylinder. The low compression set and high heat resistance of ELASTOSIL® LR 3092/65 and ELASTOSIL® R *plus* 4060 make them eminently suitable for such applications, too.

ELASTOSIL® R *plus* 4060 is also ideal for the manufacture of spark-plug boots. The silicone rubber provides excellent protection against moisture, dirt and water splashes. The elastomer's combination of high heat resistance and low compression set is another plus in this application, too.

Visit WACKER at K 2010 in Düsseldorf. You'll find us in Hall 06, Booth A10.



The silicone elastomers ELASTOSIL® LR 3092/65 and ELASTOSIL® R *plus* 4060 are among the new products to be presented by WACKER at K 2010. Both products have high heat resistance and an extremely low compression set. They are ideal for demanding automotive applications, for instance in intercooler gaskets. (Photo: Wacker Chemie AG)

Note:

*This photo is available for download at:*

<http://www.wacker.com/pressreleases>

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**The company in brief:**

WACKER is a globally-active chemical company with some 15,600 employees and annual sales of around €3.7 billion (2009). WACKER has 26 production sites and over 100 sales offices worldwide.

**WACKER SILICONES**

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

**WACKER POLYMERS**

Polyvinyl acetate and vinyl acetate copolymers in the form of dispersible polymer powders, dispersions and solid resins used as binders for construction chemicals, coatings, adhesives, paints, plasters and nonwovens

**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 photovoltaics industries

**Siltronic**

Hyperpure silicon wafers and monocrystals for semiconductor devices