



Press Release

June 8, 2020

Henkel expands gasketing portfolio with new technologies

New performance gasketing for the automotive industry

Düsseldorf, Germany – Henkel has recently expanded its gasketing product portfolio by including new materials and technologies that have been specifically designed for the automotive industry. With higher oil resistance and proven lower gas permeability, Loctite AA 5884 is a new polyacrylate gasketing technology that enables customers to enhance the performance and reliability of their products, all while achieving productivity goals and reducing overall costs.

The automotive industry is continually evolving, with stricter regulations and standards, emerging end-user requirements, and new product designs. The use of lightweight materials such as plastics has been a common strategy among automotive designers to help achieve their fuel efficiency and sustainability goals.

Engine covers, transmission covers and electronic components are being integrated into a growing number of plastic parts such as covers or header tanks, which need to be sealed to the core component unit. The most commonly used plastic-to-metal substrate sealing method is the press-in-place (PIP) process. This involves the solid rubber gasket or o-ring being manually applied onto the parts. This process brings with it a risk of displacement of the gasket during compression, however, which may lead to rework or leakages.

A milestone in the automotive industry

With the introduction of a new polyacrylate gasketing technology, Henkel has made the direct dispensation of a liquid gasket onto the customers' part possible. These static gasket materials are positioned between two flanges which are held together by fasteners to prevent the leakage of fluids and/or gases, by closing the gaps between these surfaces. In order to keep the sealing function and a leak-free joint for a prolonged period, the gasket must be resistant to the medium being sealed. At the same time, it has to be capable of withstanding the application temperature, pressure and micro-movement of the joint. These gaskets are formed by applying a bead of liquid elastomer by using automated high-precision equipment.



LOCTITE BONDERITE TECHNOMELT TEROSON AQUENCE Ceresit



The liquid gasket is cured by ultra-violet light within seconds and becomes a solid compression gasket with no knit line. This reduces the risk of re-work and leakages, while improving the productivity. It also lowers the overall cost by automating the gasketing process and eliminates the inventory and the complexity of the PIP solid gaskets.

The new polyacrylate gasket material has an excellent resistance against oil and ATF fluids and does not promote oil foaming.

The new Loctite AA 5884 product marks a milestone in chemical and process development within the automotive industry. It delivers true benefits for the fast and efficient manufacturing of compression gaskets with a sustainability edge.

About Henkel

Henkel operates globally with a well-balanced and diversified portfolio. The company holds leading positions with its three business units in both industrial and consumer businesses thanks to strong brands, innovations and technologies. Henkel Adhesive Technologies is the global leader in the adhesives market – across all industry segments worldwide. In its Laundry & Home Care and Beauty Care businesses, Henkel holds leading positions in many markets and categories around the world. Founded in 1876, Henkel looks back on more than 140 years of success. In 2019, Henkel reported sales of more than 20 billion euros and adjusted operating profit of more than 3.2 billion euros. Henkel employs more than 52,000 people globally – a passionate and highly diverse team, united by a strong company culture, a common purpose to create sustainable value, and shared values. As a recognized leader in sustainability, Henkel holds top positions in many international indices and rankings. Henkel's preferred shares are listed in the German stock index DAX. For more information, please visit www.henkel.com.

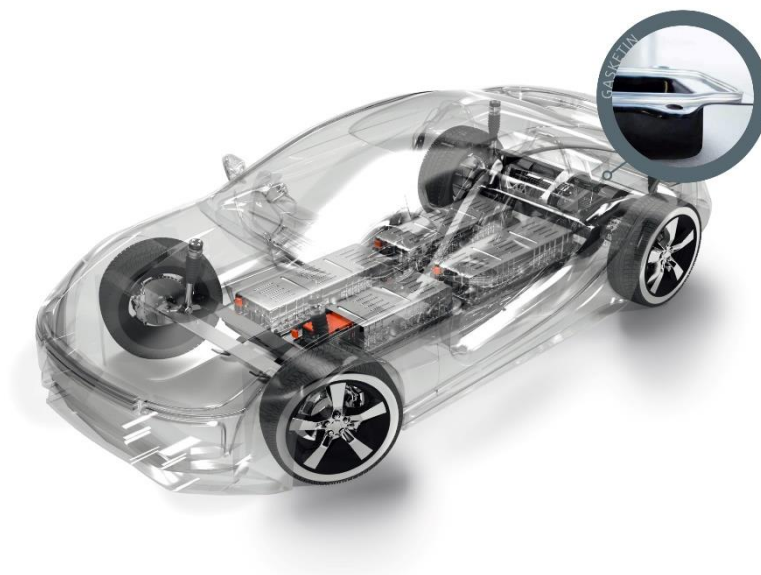
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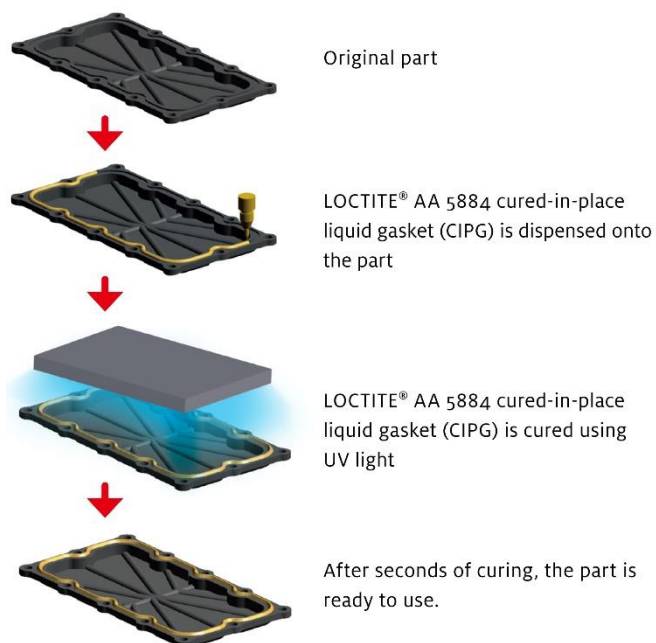
Henkel AG & Co. KGaA

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The following illustration material is available at www.henkel.com/press.



Henkel's new gasketing technology allows for direct dispensation of a liquid gasket onto parts.



Henkel's process of gasketing directly onto parts helps to achieve productivity goals and cut back on overall costs.



| E-MOBILITY |

Battery module, battery pack,
inverter, DC/DC converter, housings



| ELECTRONICS |

ECU, sensor, connector, housings



| POWERTRAIN |

E-drive module, engine covers, transmission
covers, oil pans, oil pump, timing belt cover,
intake manifold

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