

Press Release

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Enhanced retaining compounds from Henkel cure better through contaminants and resist higher temperatures

Loctite Retaining Adhesives with Higher Temperature Resistance and Oil Tolerance

Henkel has developed two Loctite anaerobic retaining compounds that perform at operating temperatures up to 180°C and show very reliable cure strength through oil contaminations and on passive metal surfaces.

"Loctite 638 and 648 offer customers increased reliability and greater heat resistance," says Dr. Niamh O'Reilly from Henkel's Product Development department. The newly-developed Henkel adhesives guarantee secure bonding on insufficiently cleaned parts, solving a problem that is typical in many manufacturing processes. They achieve excellent curing on all metals, including passive metal surfaces like stainless steel. This allows for more flexibility in substrates and designs. All proven properties like cure speed, strength, chemical resistance and shelf life were maintained.

When used to secure bearings, bushings, gears and cylindrical assemblies into housings or onto shafts, Loctite 638 and Loctite 648 retaining compounds allow higher load transmission and uniform stress distribution, while also eliminating fretting corrosion. The reliability of the joint increases compared to conventional unbonded assemblies, while expensive machining and surface-finishing operations become redundant: The overall cost of an assembly is reduced. Certifications from renowned institutions such as NSF, DVGW and WRAS prove that the new adhesives comply with state-of-the-art industry standards. "Customers worldwide already use our new retaining compounds in demanding applications," says Henkel Product & Technology Manager Dr. Bettina Temath. "These include machine and vehicle manufacturing as well as maintenance applications where reliability is key."



Loctite 638 is a high strength, high viscosity adhesive to be used on applications with larger gaps approaching 0.25 mm. Loctite 648 is a high-strength, low viscosity retaining adhesive that is most suitable for applications with smaller gaps up to 0.15 mm. Both products are available all around the world.

Loctite is a registered trademark of Henkel and/or its affiliates in Germany and elsewhere. To facilitate navigation through the industrial brands attributable to Henkel's Adhesive Technologies business sector, its portfolio has been structured on the basis of five brand clusters: Loctite, Bonderite, Technomelt, Teroson and Aquence, each of which represents technologies and applications specific to a defined user group.

Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies. Founded in 1876, Henkel holds globally leading market positions both in the consumer and industrial businesses with well-known brands such as Persil, Schwarzkopf and Loctite. Henkel employs about 47,000 people and reported sales of 16.4 billion euros and adjusted operating profit of 2.5 billion euros in fiscal 2013. Henkel's preferred shares are listed in the German stock index DAX.

Photo material is available at <http://www.henkel.com/press>

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The following material is available:



Loctite 648 and Loctite 638.



Both products are easy to use.