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# Press Release

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Substantial cost reductions for transport and storage

# Henkel's Temperature Stable Loctite GC 10 Solder Paste Living Up to its Game-Changing Promise

**Earlier this year, Henkel introduced the electronics market to the first-ever temperature stable solder paste, Loctite GC 10. Since its official debut in February, over 1,000 sample requests of the material have been fulfilled and customers who have qualified the game-changing solder paste are singing its praises.**

Matt Polak, owner of Valley View, Ohio-based Raven Systems Design, describes his experience with Loctite GC 10. "We have always had issues with paste drying out prematurely and clogging fine-pitch apertures, even during the course of a daily production run," he explains. "Because of the fine-pitch, high density nature and the reliability requirements of the products we are producing, re-using paste has always been out of the question and we expect to discard a minimum of 1/3 of the unused paste of every jar we open.

Loctite GC 10 has completely changed our traditional working models. The paste has given us nothing but perfect, consistent results with no refrigeration. In our evaluation, Loctite GC 10 came out of the jar perfect and the printing results at 60 hours were just as good as they were an hour after opening the jar. It printed and reflowed flawlessly and we achieved very close to 100% yield. In addition, we didn't experience any aperture clogging, the stencil cleaned up easily and the paste didn't dry out. The cost savings for our business are substantial and far outweigh any incremental cost differential versus competitive pastes. Loctite GC 10 is absolutely the 'game changer' it claims to be!"

Loctite GC 10's value proposition is extensive, with benefits throughout the logistics and operations chains. Temperature stable at 26.5°C for one year and stable at temperatures of up to 40°C for one month, Loctite GC 10 overcomes the processing and performance challenges experienced by conventional solder paste products. Whereas traditional materials have abandon times ranging from 1 to 4 hours on average, Loctite GC 10 has abandon times of up to 24 hours, a stencil life of up to 72

hours and zero startup time. The formulation of the material delivers stabilized and consistent print transfer efficiency, an expanded reflow window and increased activity for better results with soak temperatures between 150°C and 200°C.

In addition to its proven performance and in-process cost-efficiency advantages, Loctite GC 10 also provides substantial cost reductions for transport and storage. The temperature stability of the material eliminates the requirement for cold packing and overnight shipping and, once at the factory, can be stored at room temperature. Transportation costs are reduced and energy consumption at the facility is decreased.

When it comes to the logistics benefits of Loctite GC 10, Morey Corporation's Technical Steward, Chris Murphy, enthusiastically shares his satisfaction. "Outside of its excellent process performance, which is always our top priority, the sheer simplicity and cost savings realized by Loctite GC 10's hassle-free material management are incredible," notes the 30-year veteran of Woodridge, Illinois-based EMS firm. "There is no taking it out of the refrigerator hours before a shift, no complex labeling and, best of all, start-up time is zero. We just take it off the shelf, put it on the stencil and start printing boards. We've left Loctite GC 10 on the stencil for more than eight hours and it was as creamy as when we first opened the jar – no kneading required. Plus, we can do away with expensive overnight shipping of solder paste and the worry about temperature exposure. With Loctite GC 10, we have a lot more latitude and that translates to a more efficient operation."

More than four years in development, Loctite GC 10 has quickly become one of the most significant breakthroughs in solder materials in recent years. "The broad development process and multi-tiered beta testing Loctite GC 10 underwent gave us extreme confidence in its performance," says Henkel Americas Sales Director, Brian Betti. "But, the market reception and incredibly fast adoption have been beyond our expectations. Loctite GC 10 is proving to be the game-changer manufacturers need for today's demanding processes."

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## About Henkel

Henkel operates worldwide with leading brands and technologies in three business units: Laundry & Home Care, Beauty Care and Adhesive Technologies. Founded in 1876, Henkel holds globally leading market positions, both in the consumer and in the industrial businesses, with well-known brands such as Persil, Schwarzkopf and Loctite. Henkel employs about 50,000 people and reported sales of 16.4 billion euros and adjusted operating profit of 2.6 billion euros in fiscal 2014. Henkel's preferred shares are listed in the German stock index DAX.

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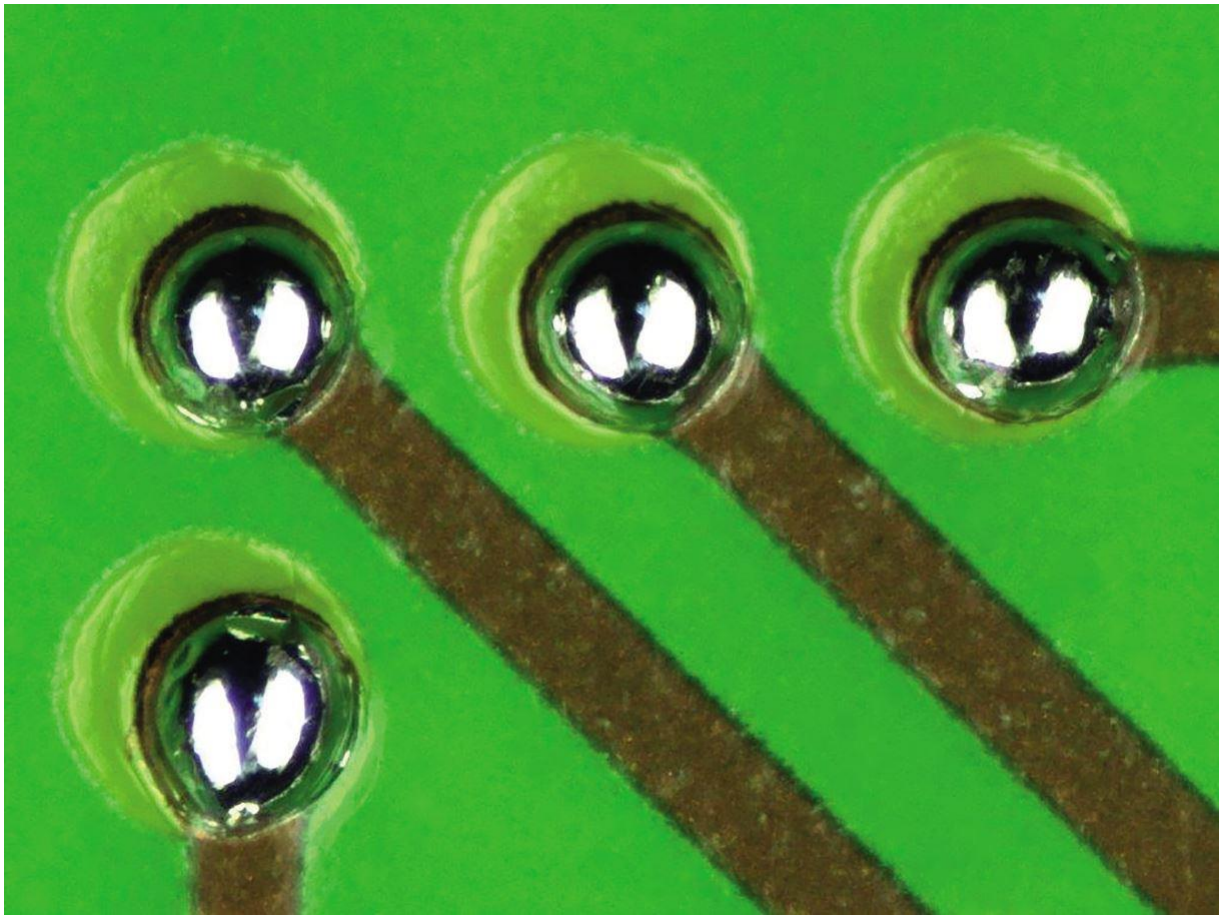
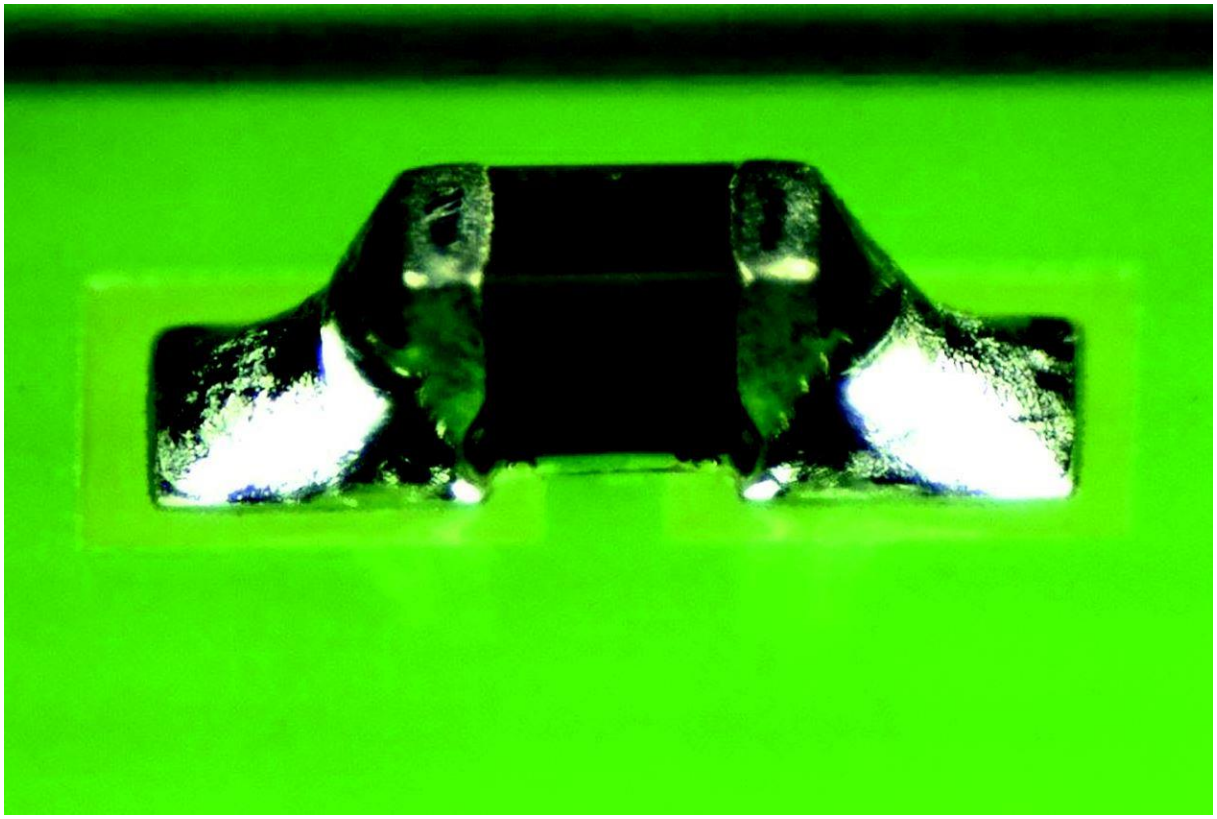


Perfect printing results and elimination of solder balls.



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