



Press Release

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Adhesive properties enable optimized performance for multiple semiconductor, optical, fiber-optic and optoelectronics devices

Henkel Debuts Assembly Adhesive for Optical Fiber Applications

Irvine, CA – Henkel Corporation’s Adhesive Electronics (AE) business today announced the commercial availability of a new, high-strength adhesive designed for streamlined assembly of optical components and modules. The material, LOCTITE® STYCAST® OS 8300, is a two-part, dispensable epoxy adhesive conducive to high-volume manufacturing requirements and delivering improved adhesion performance* as compared to previous-generation materials.

LOCTITE STYCAST OS 8300 is the latest addition to Henkel’s broad portfolio of two-part epoxies for bonding of fiber and glass in optical fiber applications. Its adhesion bond strength on multiple substrates including glass and FR4 laminate is 18 kg*, which is a significant improvement over alternative materials and provides highly reliable and robust in-use performance. In addition to a strong bond, LOCTITE STYCAST OS 8300 is formulated with a matched refractive index for optimal light transmission, has low weight loss for reduced risk of optical component contamination, and an improved work life to enable extended processing time. All of these advantages make the material ideal for FAU, ROADM and optical cable assemblies.

“The growth of telecom and datacom applications and requirements for faster data transfer speeds are extraordinary,” notes Farida Jensen, Henkel Americas Business Development Manager, Telecom/Datacom. “The integrity and performance of critical optical devices depend on the alignment accuracy and long-term adhesive stability of the bonded components, and Henkel’s latest material delivers.”

To meet the demand for telecom and datacom components, high-throughput production is essential. With fast dispensing speeds and quick curing capability, LOCTITE STYCAST OS 8300 facilitates the challenging pace of high-volume optical component assembly. Quick cure at relatively low temperature (80°C) and the ability to store material at room temperature before mixing also allow optoelectronics manufacturers to reduce energy cost and support sustainability objectives.

“Henkel continues to build on its already-broad optical products portfolio, with LOCTITE STYCAST OS 8300 addressing emerging processing and reliability requirements of passive and active optical component assembly,” Jensen says in summary, noting the positive response the material received during its debut at the recent OFC conference. “Our engineering teams are completely focused on developing new products for optoelectronics applications that will meet the expectations for higher speeds, higher bandwidth, lower power consumption and smaller form factors of modern telecom and datacom systems.”

For more information, follow [this link](#) or call +1-888-943-6535.

**As per internal lab testing. Sample cured @150°C, die shear strength at 25°C on glass to glass, 2 x 2 mm die, Kg>15.*

About Henkel in North America

In North America, Henkel operates across its three business units: Adhesive Technologies, Beauty Care, and Laundry & Home Care. Its portfolio of well-known consumer and industrial brands includes Schwarzkopf® hair care, Dial® soaps, Right Guard® antiperspirants, Persil®, Purex® and all® laundry detergents, Snuggle® fabric softeners, as well as Loctite®, Technomelt® and Bonderite® adhesives. With sales of around 6 billion US dollars (5 billion euros) in 2018, North America accounts for 25 percent of the company’s global sales. Henkel employs approximately 9,000 people across the U.S., Canada and Puerto Rico. For more information, please visit www.henkel-northamerica.com.

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 2018, Henkel reported sales of around 20 billion euros and adjusted operating profit of around 3.5 billion euros. Henkel employs around 53,000 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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