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New Adhesive Materials for Image Sensor Housings Now Available from Henkel

As the mobile handset image sensor market continues to expand at a rapid pace, Henkel announces several new Loctite® brand adhesive products to meet the requirements of this significant high volume application. Henkel's family of image sensor housing adhesives now incorporates several new materials, including: Loctite 3220, Loctite 3905, Loctite 3131 and Loctite 3217. All are designed for temperature sensitive components and are ideal for image sensor assembly, which continues to push the miniaturization envelope.

With projections that nearly 50% of mobile phones produced will have one or more camera modules on board, it is essential that image sensor housing assembly be conducive to high-volume mobile handset production. The rapid cure times and long pot life characteristics of Henkel's new line of Loctite brand adhesives effectively enable high-UPH (units per hour) manufacturing. In addition to their fast cycle time abilities, the new family of Loctite materials also delivers excellent bonding to a variety of surfaces that, historically, have posed bonding challenges. These latest adhesive formulations bond well to nylon, liquid crystal polymer (LCP) and polycarbonate, which are the three housing materials most commonly used for image sensors.

For those manufacturers requiring a heat cure product, Loctite 3220 offers a material solution that delivers a 50% adhesion improvement over older-generation products. It bonds well to all three common housing surfaces and can be cured at very low temperature for significant energy savings or snap cured to further increase production speeds. Another heat cure product, Loctite 3905 is the latest adhesive advancement for firms that demand superior reliability through high adhesion strength and high glass transition temperature for thermal stability. The material also possesses very fine dispense capabilities to meet the demands of
smaller camera module bonding areas, which is a direct result of the push toward reduced footprints and increased pixel counts.

The second series of new adhesive products to become commercially available are two dual cure products, Loctite 3131 and Loctite 3217. With a dual UV and heat cure, certain requirements of current processes can be eliminated and costs significantly reduced. In a traditional housing assembly process, once the housing component is placed, a jig is used to hold the housing and the substrate to maintain the housing position and focus alignment. The UV option delivered by the Loctite materials is used to temporarily fix the housing in its location, which prohibits movement during transport to the oven and the subsequent cure process and eliminates the need for a stability jig. Plus, the materials are compatible with standard UV or blue light LEDs, which offer a much safer wavelength operation environment. The adhesive is then heat cured at a very low – as low as 60° C – temperature. Both Loctite 3131 and Loctite 3217 provide excellent adhesion to a variety of surfaces, the primary difference in the materials being their UV fixture strength and rheology.

To find out how Henkel's new Loctite adhesive solutions can enable cost-effective and reliable image sensor assembly, log onto www.henkelelectronics.com or call the company's Irvine, California headquarters at 949-789-2500.

About the electronics group of Henkel

Henkel is one of the world's leading and most progressive providers of qualified, compatible material sets for semiconductor packaging, board level assembly and advanced soldering solutions. Through its Hysol, Loctite and Multicore brands, and its global customer support infrastructure, the electronics group of Henkel delivers world-class materials products, process expertise and total solutions across the board to enable tomorrow's electronics industry.

Henkel, a Fortune Global 500 company, operates in three strategic business areas: Home Care; Personal care; and Adhesives, Sealants and Surface Treatments, which serves the transportation, electronics, aerospace, metal, durable goods, consumer goods, maintenance and repair and packaging industries, and offers a broad range of products for the craftsman and consumer. With brands and technologies, Henkel makes people's lives easier, better, and more beautiful. 50,000 employees work for Henkel worldwide. People in 125 countries around the world trust in brands and technologies from Henkel – "A Brand like a Friend".

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