

## Presse Release

October 5, 2015

Grow competitive edge for clean, sustainable machining

### **Henkel introduces new Bonderite dualLCys process for the metalworking industry**

Düsseldorf– Bonderite dualLCys process exploits lubricant-cleaner synergies to reduce costs, boost performance, save energy, lower waste generation, and improve working conditions.

When maintaining your metal machining tools and operations, what if you could be more sustainable, improve your cleaning performance and save money all at the same time? Thanks to Henkel's Bonderite dualLCys process, now you can.

Reduce your costs by up to 40% by using an innovative process that leverages the synergies between the lubricant and the cleaning fluid. In the Bonderite dualLCys process, the cleaning fluid is recycled into the lubricant bath, rather than being discarded as waste.

#### **A process with multiple benefits for the metalworking industry**

Henkel Adhesive Technologies as the leading solution provider for adhesives, sealants and functional coatings worldwide is present across the metalworking value chain leveraging its strength in cleaners to complement the company's presence in water miscible lubricants. The new Bonderite dualLCys system requires less water, helps to minimize waste, and saves energy by allowing the washer bath to operate at a reduced temperature. In addition to delivering low reject rates and high surface quality, Bonderite dualLCys also offers improved working conditions resulting from the use of safer, more predictable solutions. In the automotive industry, the process can provide a competitive edge to automakers, automotive-suppliers and other machining companies alike by providing a more cost-effective, sustainable process for the manufacture of metal parts such as powertrain components, seat frames, HVAC compressors and other machined parts.

“The Bonderite dualCys process is a unique concept in the area of machining and in-process cleaning for the metalworking market”, says Martin Desinger, Business Development Manager, Lubricants, Europe, at Henkel Adhesive Technologies. “Recycling the cleaning fluid instead of throwing it away, and making use of synergies between it and the water-soluble cutting fluid, results in an excellent combination of high lubricity, superior part cleanliness and excellent corrosion protection.”

#### **Improved tool life with better lubrication**

— Machining tools last much longer in operations using Bonderite dualCys, thanks to its superior cleaning capability as well as its much higher lubricity compared to rival products. The lubricant also features pre-cleaning properties due to its combined formulation. “The addition of a cleaner with lubricity capability into our ultra-finely dispersed lubricant gives the blend unrivalled properties,” Desinger notes. “Operations can save up to 40% process-costs, and can reduce lubricant drag-out by as much as 70%.”

#### **Realizing the benefits of two Henkel products in one**

— This new process is the synergy between a lubricant and a cleaner: Bonderite C-NE 10466 high-performance, water-based neutral cleaner, and Bonderite L-MR 21466 cutting fluid. The cleaner produces no foaming in most common water hardnesses, provides excellent corrosion protection and can be used at room temperature. The machining fluid is a finely dispersed lubricant. Both are boron- and bactericide-free. It is suitable for most substrates, including steel, stainless steel, cast iron and aluminum alloys.

#### **Henkel to unveil the new process at EMO Milano**

— Henkel’s introduction of Bonderite dualCys at the EMO Milano 2015 show extends its Bonderite portfolio of products that help facilitate cleaner and more efficient and sustainable machining. Bonderite is the company’s premium brand for surface technology and process solutions. For more information, visit Henkel (Booth B42, Hall 4) at EMO Milano 2015, which takes place from October 5-10, in Milan, Italy.

More information about dualCys is available at: [www.henkel-automotive.com/dualcys](http://www.henkel-automotive.com/dualcys).

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.

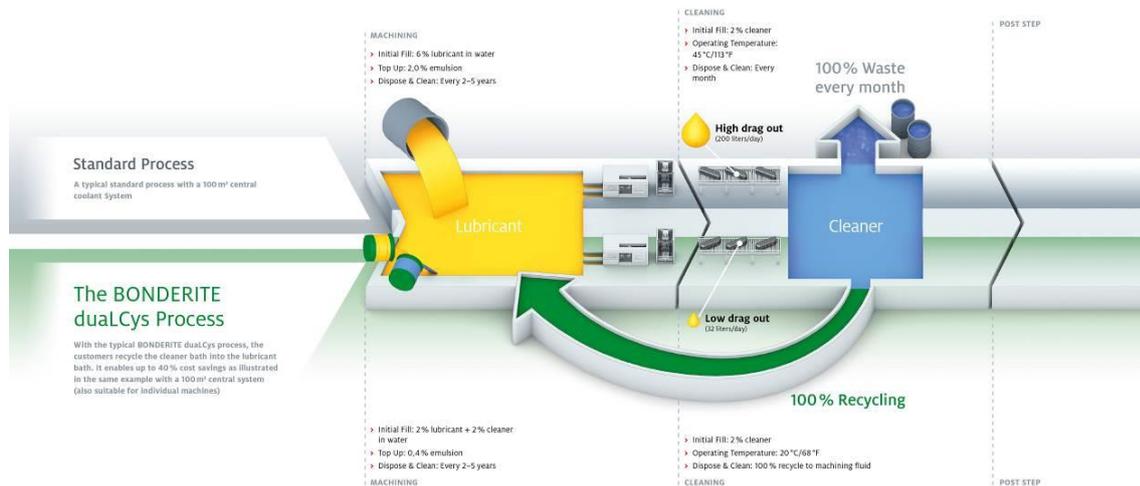
Photo material is available at <http://www.henkel.de/presse>

Contact	Kathrin Fuss	Kevin Noels
Phone	+49 211 7970	+31 164 317 011
E-mail		<a href="mailto:knoels@emg-pr.com">knoels@emg-pr.com</a>
	Henkel Adhesive Technologies	EMG

Follow us on Twitter: [@HenkelPresse](https://twitter.com/HenkelPresse)

The following material is available:

The Tangible Advantages in Comparison



Henkel's Bonderite dualCys process is an innovative 2-component process where the cleaner can be recycled into the lubricant bath. The dual system, which features pre-cleaning during machining, offers low foam, low temperature cleaning, cooling and lubricating performance and corrosion protection. Switching to the new system can achieve cost savings of up to 40% due to less product, waste, water and energy consumption. (Photo: Henkel, PR003)



Bonderite dualCys can provide a competitive edge to automotive manufacturers and suppliers for ferrous and non ferrous metal parts. It can be particularly helpful in producing parts such as powertrain components, seat frames and HVAC compressors. (Photo: Henkel, PR003)

This press release and relevant photography can be downloaded from [www.PressReleaseFinder.com](http://www.PressReleaseFinder.com).

Alternatively for very high resolution pictures please contact Kevin Noels

([knoels@emg-pr.com](mailto:knoels@emg-pr.com), +31 164 317 011).