



## Press release

April 18, 2023

Henkel develops low temperature cleaner for metal beverage can applications

### **First low temperature cleaners deliver more efficient and sustainable aluminum can production**

The lower the temperature, the higher the impact: Henkel has developed an innovative low temperature cleaner for aluminum beverage cans that will soon be available globally. When used in traditional spray systems, Bonderite C-IC 72000 series cleans at a lower temperature, reducing natural gas use and in turn, lowering the plant's carbon footprint. Results will vary from plant to plant based on their processes, however during a recent trial, a customer reduced their natural gas use which contributed to a 38% reduction in their carbon emissions.

Compared to conventional cleaners, which typically operate around 60°C (140°F), Bonderite C-IC 72000 series cleaner requires a lower operating temperature of 43°C (110°F). This enables can manufacturers to significantly reduce their energy consumption. "Our initial line tests show a 32% reduction in natural gas consumption at the plant from turning off one boiler; additionally, a 5% to 20% reduction in water was achieved during recent trials," says Fabio Portelinha, Technical Customer Service Manager at Henkel Adhesive Technologies. Beyond reducing the carbon footprint, the lower temperature creates a more comfortable working environment for employees near the cleaning bath.

Additionally, the cleaner also offers advantages in terms of water and maintenance. The cleaner is low foaming, generating 75 percent less foam than standard cleaners in Henkel's laboratory studies. Compared to standard cleaners, there is little to no carry-over of foam into downstream stages during the cleaning process. It also reduces residue during rinse cycles, keeping rinse stages cleaner. Additionally, the lower bath temperature results in less evaporative losses, and creates a less corrosive environment, which is expected to extend the lifetime of the steel washer and parts. As a result, both wear and water consumption are reduced – which in turn extends the service life of the cleaning system.

The Bonderite C-IC 72000 series product range will include traditional 2-pack systems that use separate etchant additions, as well as available in single-pack formulations with combined cleaner and etchant in a range of activity levels to suit the market needs.

"The lower temperature product provides very good cleaning performance and has an excellent sustainability contribution," says Mireia Martinez, Head of Innovation and Marketing & Strategy for the Metal business unit at Henkel Adhesive Technologies. "Bonderite C-IC 72000 series cleaner efficiently removes lubricants from the forming process. Combined with the reduction of natural gas, reduced carbon footprint, and water reduction, this innovative cleaner contributes to greater sustainability throughout the canmaking process." Henkel's low temperature cleaner technology is already available in the LATAM region and will be introduced in all other regions of the world during 2023.

#### **About Henkel**

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market of adhesives, sealants and functional coatings. With Consumer Brands, the company holds leading positions especially in hair care and laundry & home care in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2022, Henkel reported sales of more than 22 billion euros and adjusted operating profit of around 2.3 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with concrete targets. Henkel was founded in 1876 and today employs a diverse team of more than 50,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at [www.henkel.com](http://www.henkel.com)

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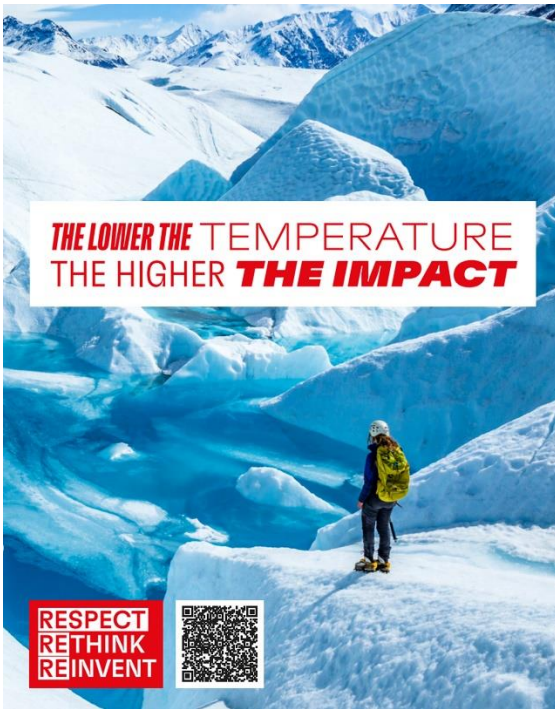
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The following image material can also be found on the internet at <https://www.henkel.com/press-and-media>.

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Henkel has developed an innovative low temperature cleaner for aluminum beverage cans that are treated in traditional spray systems.



Thanks to the reduction of natural gas, carbon footprint and water consumption, the low temperature cleaner contributes to greater sustainability throughout the canmaking process.