



Press Release

April 5, 2023

Graphite-free Bonderite L-FG F 605 lubricant boosts die life and reduces forging cost

Henkel launches high-performing, non-pigmented forging lubricant for automotive market

Düsseldorf – Henkel has launched a unique synthetic lubricant for automotive manufacturers that drives down the costs and environmental impact of forging. Ideal for use on automotive forming applications such as bearings, wheel hubs, small gears and slip yokes, Bonderite L-FG F 605 is a graphite-free non-pigmented forging lubricant that provides an excellent lubrication film. With similar performance to graphite, it reduces die degradation from metal-to-metal contact to significantly extend die life. Thanks to its graphite-free formulation, Bonderite L-FG F 605 eliminates ammonia emissions for safer, more sustainable workplaces.

Bonderite L-FG F 605 is based on unique synthetic lubricants that form an excellent lubricating film on the die, thereby reducing metal-to-metal contact that produces die degradation. As a result of improved die life, the expense of replacing dies – which can account for up to 10 to 15 percent of overall forging costs¹ – is reduced. Additionally, further cost reductions can be achieved thanks to Bonderite L-FG F 605 excellent stability at high dilution rates, which means that less lubricant is needed. In one application, the dilution ratio was improved from 1:6 using a graphite-based forging lubricant to 1:13 using Bonderite L-FG F 605.

Bonderite L-FG F 605 also provides a safer and more sustainable option for forging. The solution improves air quality by eliminating ammonia emissions associated with ammonia containing graphite in water dispersion. Workspaces are also significantly easier to keep clean, as non-pigmented forging lubricants only require cleaning of organic salts.

¹Source: Forging Magazine

“Henkel’s surface treatment, cleaners and lubricants business for automotive components offers process solutions across the value chain, from liquid metal to the final part,” said Dr. Stephan Winkels, Surface Treatment, Cleaners & Lubricants Market Segment Head at Henkel. “Our robust process expertise is available globally, enabling customers around the world to effectively use our products with stable, quality results.”

To learn more about Bonderite L-FG F 605, click [here](#).

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

Photo material is available at www.henkel.com/press

Contact Carrie Cioffi-McGuire
Email carrie.cioffi-mcguire@henkel.com

Contact Vincent Zimmermann
Email Henkel.adhesive-technologies@emanatepr.com

Henkel AG & Co. KGaA

The following photo material is available:



Bonderite L-FG F 605 is a graphite-free non-pigmented forging lubricant that provides an excellent lubrication film for use on automotive forming applications such as bearings, wheel hubs and small gears.



With Bonderite L-FG F 605 Henkel launches a high-performing, non-pigmented forging lubricant for automotive market.