



## **Carpenter Technology Develops Pyrowear® 225 - a Next Generation Gear Alloy for Critical Transmission Applications**

June 17, 2019

LE BOURGET, France, June 17, 2019 (GLOBE NEWSWIRE) -- Carpenter Technology Corporation (NYSE: CRS) today announced that it has developed an advanced jet engine gear solution, Pyrowear® 225 alloy, targeted for high performance and demanding applications. Compared to standard industry solutions, Carpenter Technology's Pyrowear® 225 alloy offers a combination of ~30% higher ultimate strength or 250 degrees F operating temperature improvement.<sup>1</sup> This solution is expected to enable next generation engines to realize further improvements in fuel efficiency, by allowing operation at higher temperatures with reduced weight.

"We are excited to add Pyrowear® 225 alloy to our range of industry-leading solutions to help our customers save weight, increase space availability, and extend endurance limits when designing for critical components", said David Graf, Carpenter Technology's Chief Technology Officer. "We look forward to working with our customers to demonstrate the benefits of this material solution in next generation engine designs."

Pyrowear® 225 alloy builds on Carpenter Technology's portfolio of Pyrowear® gear solutions and achieves a typical ultimate strength of 225 KSI, which is a measurable improvement in strength relative to other low-alloy solutions. Results of a comprehensive test program that Carpenter Technology initiated are published in a White Paper that will be distributed at the Paris Air Show. Data from the White Paper will also be included in the Pyrowear® 225 alloy material Data Sheet that will be published soon. Visitors to the International Paris Air Show are welcome to visit Carpenter Technology's booth, which is located at Hall 5, E232, to learn more about this and other advanced material solutions.

### **Media/Investor Inquiries**

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### **About Carpenter Technology Corporation**

Carpenter Technology Corporation is a recognized leader in high-performance specialty alloy-based materials and process solutions for critical applications in the aerospace, defense, transportation, energy, industrial, medical, and consumer electronics markets. Founded in 1889, Carpenter Technology has evolved to become a pioneer in premium specialty alloys, including titanium, nickel, and cobalt, as well as alloys specifically engineered for additive manufacturing (AM) processes and soft magnetics applications. Carpenter Technology has expanded its AM capabilities to provide a complete "end-to-end" solution to accelerate materials innovation and streamline parts production. More information about Carpenter Technology can be found at [www.carpentertechnology.com](http://www.carpentertechnology.com).

### **Forward-Looking Statements**

*This news release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on management's current expectations and are subject to risks, uncertainties and other factors that could cause actual results to differ from those projected, anticipated or implied. The most significant of these uncertainties are described in Carpenter Technology's filings with the Securities and Exchange Commission, including its annual report on Form 10-K for the year ended June 30, 2018, Form 10-Q for the quarters ended September 30, 2018, December 31, 2018 and April 25, 2019, and the exhibits attached to those filings. Carpenter Technology undertakes no obligation to update or revise any forward-looking statements.*

<sup>1</sup> Compared to 9310 alloy.



Source: Carpenter Technology Corporation