

Press Release

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3D Systems Verifies Performance of NASA's New Super Alloy GRX-810, Paving the Way for Advanced Aerospace Applications

ROCK HILL, South Carolina, April 21, 2023 – Today, [3D Systems](https://www.3dsystems.com) (NYSE:DDD) announced the successful verification of properties for NASA's groundbreaking new laser powder bed fusion super alloy, GRX-810. This revolutionary oxide dispersion-strengthened alloy, developed by the National Aeronautics and Space Administration (NASA), demonstrates exceptional mechanical properties and resistance to extreme temperatures, making it ideal for aerospace applications. GRX-810 is a potential game-changer for the aerospace industry. Through its oxide dispersion strengthening mechanism it can offer an unparalleled combination of strength, ductility, creep life, and heat resistance. These properties make the alloy an ideal candidate for future use in critical-components such as rocket engines, turbine blades, and exhaust nozzle components.

Working with material provided by NASA, 3D Systems has successfully processed and tested the elevated temperature mechanical properties of GRX-810 using its industry-leading Direct Metal Printing (DMP) platform. This verification of properties represents a major milestone, demonstrating the performance of the material across different equipment and processing parameters and further opening the door for the use of GRX-810 in various aerospace components that require superior performance to traditional nickel-based super alloys.

"The successful verification of the reported NASA GRX-810 properties is a testament to the incredible potential of this new super alloy, not only in its performance but in its capability to be

produced repeatably," said Dr. Michael Shepard, vice president, aerospace & defense segment, 3D Systems. "Our work with this material provided by NASA underscores our commitment to pushing the boundaries of additive manufacturing and enabling the production of next-generation aerospace components. We are thrilled to be part of the early stages of this exciting development and look forward to unlocking new possibilities with GRX-810."

Forward-Looking Statements

Certain statements made in this release that are not statements of historical or current facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance or achievements of the company to be materially different from historical results or from any future results or projections expressed or implied by such forward-looking statements. In many cases, forward-looking statements can be identified by terms such as "believes," "belief," "expects," "may," "will," "estimates," "intends," "anticipates" or "plans" or the negative of these terms or other comparable terminology.

Forward-looking statements are based upon management's beliefs, assumptions, and current expectations and may include comments as to the company's beliefs and expectations as to future events and trends affecting its business and are necessarily subject to uncertainties, many of which are outside the control of the company. The factors described under the headings "Forward-Looking Statements" and "Risk Factors" in the company's periodic filings with the Securities and Exchange Commission, as well as other factors, could cause actual results to differ materially from those reflected or predicted in forward-looking statements. Although management believes that the expectations reflected in the forward-looking statements are reasonable, forward-looking statements are not, and should not be relied upon as a guarantee of future performance or results, nor will they necessarily prove to be accurate indications of the times at which such performance or results will be achieved. The forward-looking statements included are made only as of the date of the statement. 3D Systems undertakes no obligation to update or revise any forward-looking statements made by management or on its behalf, whether as a result of future developments, subsequent events or circumstances or otherwise, except as required by law.

About 3D Systems

More than 35 years ago, 3D Systems brought the innovation of 3D printing to the manufacturing industry. Today, as the leading additive manufacturing solutions partner, we bring innovation, performance, and reliability to every interaction - empowering our customers to create products

and business models never before possible. Thanks to our unique offering of hardware, software, materials, and services, each application-specific solution is powered by the expertise of our application engineers who collaborate with customers to transform how they deliver their products and services. 3D Systems' solutions address a variety of advanced applications in healthcare and industrial markets such as medical and dental, aerospace & defense, automotive, and durable goods. More information on the company is available at www.3dsystems.com.

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