

3MF DEVELOPS AM PRINTING PARAMETERS FOR SUPER DUPLEX STAINLESS STEEL

Highlights:

- 3D Metalforge has expanded the range of materials it can print with the development of printing parameters for the additive production of parts in Super Duplex.
- Super Duplex is a stainless steel alloy designed for mechanical and structural components that require high strength and anti-corrosion resistant properties.
- 3D Metalforge sees opportunity for Super Duplex AM applications in the oil and gas and defence industries specifically. The global market for Duplex Stainless Steel is estimated to be US\$6.83 BN by 2026¹.
- The adoption of Super Duplex for AM is another demonstration of 3D Metalforge's commitment to leading the way in the development of new additive manufacturing materials and technologies.

14 April 2022: 3D Metalforge (ASX: 3MF) (3D Metalforge or the Company), a revenue generating Additive Manufacturing company, has developed the printing parameters for Additive Manufacturing (AM) in Super Duplex Stainless Steel. Super Duplex is a stainless steel alloy that has improved strength over ferritic and austenitic steel grades, ideal for high-strength and anti-corrosion parts.

3D Metalforge sees opportunities for Super Duplex additive manufacturing application in the oil and gas and defence industries, especially for heat exchangers, offshore platforms, chemical processing equipment, boilers, pressure vessels. Super Duplex steel's microstructure provides very good stress corrosion cracking (SCC) resistance, which makes it applicable in situations of elevated temperature or humidity, a characteristic standard austenitic stainless steels do not possess.

The development of Super Duplex for AM is significant to 3D Metalforge's continuing commitment to leading the way in the development of new additive manufacturing technologies and materials. The development of the printing parameters for Super Duplex has taken over 6 months due to the difficulty in getting the right mechanical properties. The benefit of being able to print in Super Duplex significantly widens the range of parts that 3D Metalforge can produce, thus widening the customer base. It will also allow 3D Metalforge to explore new custom-engineered solutions and streamlined processes to deliver a faster response and shorter turn-around times that customers need.

Matthew Waterhouse, 3D Metalforge Managing Director, said: "We work continually to expand our library of available metal and polymer materials to meet clients' increasing demand for specific, high-performing materials approved for AM application – and this is key to 3D Metalforge continuing to provide better performing quality AM parts. The application of Super Duplex will enhance our production of high-demand industrial parts faster, better and more cost-effectively than traditional manufacturing. The ability to produce parts in Super Duplex, along with our complete range of AM

¹ Market Data Forecast, Duplex Stainless Steel Market.

services, gives us a competitive advantage, while we improve companies' processes, and their products and services."

- ENDS -

This announcement has been approved for release by the Managing Director of 3D Metalforge Limited.

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ABOUT 3D METALFORGE

3D Metalforge (ASX: 3MF), founded in 2015, is a leading Additive Manufacturing (AM) company that supports a growing multinational industry-leading client base with their advanced proprietary 3D additive manufacturing systems. The Company offers a full range of in-house AM printing services from design and engineering, material advisory, diagnostics and testing, to printing and post-production certification to the latest industry and API standards. Its approach to industrial production, its proprietary processes and eco-friendly technology produce high-demand parts faster, better and more cost-effectively with less environmental impact and greater sustainability than conventional manufacturing.

FORWARD LOOKING STATEMENT

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices or potential growth of 3D Metalforge Limited, are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.