



VDM Metals Enters Partnership with Metal 3D Printing Service Provider Rosswag Engineering

Through the partnership between VDM Metals and the German metal 3D printing service provider Rosswag Engineering, the innovative powder material VDM® Powder 699 XA is set to be further established in the industrial sector.

Utilizing the Laser Powder Bed Fusion process, Rosswag Engineering can efficiently manufacture function-optimized and complex components. By merging the expertise of both companies in the areas of material development and additive manufacturing technology, new applications for this highly corrosion-resistant material have been identified.

VDM® Powder Alloy 699 XA is a nickel-chromium-aluminum alloy, developed for use in highly corrosive environments within the petrochemical industry. For instance, it is used in synthesis gas processes to produce hydrogen, ammonia, methanol, or in the cooling of synthesis gas in the production of E-Fuel.

Extensive testing of the material has qualified it at Rosswag, making it ready for prototypes and series applications.

An official certification for pressure equipment according to the Pressure Equipment Directive is expected to occur in 2024.

"The powder material VDM® Powder 699 XA was specifically developed for its exceptional resistance to Metal Dusting, an extreme form of carburization. This characteristic makes it ideally suited for demanding industrial applications. Moreover, its excellent weldability facilitates the widespread use of this alloy for the chemical process industry and other high-temperature and corrosive applications," said Dr. Tatiana Hentrich, Vice President of Sales Metal Powder at VDM Metals.



Philipp Schwarz, Business Development Manager at Rosswag Engineering sees benefits for metal-based 3D printing in this partnership: "With the material VDM® Powder 699 XA, we complement our extensive material portfolio for industrial metal 3D printing. We can now produce highly stressed components with statistically validated material properties up to 600 °C."

Both companies are excited about the new possibilities this partnership offers and look forward to expanding the application spectrum of metal-based 3D printing together.

Further information:

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