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NEWS RELEASE

Mitsui Kinzoku Announces 3D Systems has Added Copper Chromium Alloy Powder to Materials Portfolio

Mitsui Mining & Smelting Co., Ltd. (President: NOU Takeshi; hereafter, "Mitsui Kinzoku") announces that 3D Systems, a leading additive manufacturing solutions provider, has decided to add the copper alloy powder for additive manufacturing developed by Mitsui Kinzoku's Engineered Powders Division to its metal 3D printing materials portfolio.

Copper materials used for additive manufacturing are drawing attention globally in many different fields, including its use in cooling equipment for data centers, motor components in electric vehicles, high-frequency induction heating coils, and space rocket components. Mitsui Kinzoku offers two types of copper chromium alloy powder for 3D printer products: a product with high electrical conductivity and an easy printable product with controllable conductive properties and strength. Both products ensure performance that is higher than the products on the market to satisfy a broad range of needs in 3D printing.

3D Systems has added Certified CuCr2.4, an easy printable product with controllable conductive properties and strength to its lineup of materials for the DMP Flex 350 and DMP Factory 350 machines.¹ 3D Systems, whose founder, Chuck Hull, invented Stereolithography which started the 3D printing industry, is a large-scale additive manufacturing solutions provider that has contributed to the growth of the 3D printer market for over 35 years since its establishment in 1986. Their introduction of our material product would encourage the users of their 3D printers to use our material widely, allow us to access a wide global market, and enable us to discover more applications for copper alloy powder through 3D printers.

Based on our purpose, "We promote the well-being of the world through a spirit of exploration and diverse technologies," we will develop the new materials that our customers want and ensure stable quality, leveraging our strengths: the powder control technology used to freely control powders in terms of particle diameter, particle size distribution, shape and surface treatment, and the ability to develop materials.



Photo 1: Example of 3D printing using our material product (heat exchanger)*

*Courtesy of 3D Systems



Photo 2: Copper chromium alloy powder for 3D printers

[Contact]

Corporate Communications Department, Corporate Planning & Control Sector, Mitsui Mining & Smelting Co., Ltd.

TEL: +81-3-5437-8028 Email: PR@mitsui-kinzoku.com

Description of Terms

1. 3D metal printer using laser powder bed fusion manufactured and distributed by 3D Systems

[Reference]

Material data sheet for copper chromium alloy for 3D printers (from the 3D Systems website)

<https://www.3dsystems.com/materials/certified-cucr2.4>