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NEWS RELEASE

Initiation of Collaboration with Morf3D to Qualify Copper Chromium Alloy Powder for Additive Manufacturing of Aerospace Applications

Mitsui Mining & Smelting Co., Ltd. (President: NOU Takeshi) announces that it has initiated collaboration with Morf3D (CEO: Ivan Madera), aiming at making a full-scale entry into the aerospace industry with its copper chromium alloy powder for 3D printers developed by Engineered Powders Division.

Copper materials used for additive manufacturing are drawing attention globally in many different applications within propulsion and thermal management technologies. With the commercialization of aerospace, additive manufacturing technology is looking to serve the many applications that can benefit from a more affordable and sustainable copper that maintains the benefits of the alloy.

Our copper chromium alloy powder for additive manufacturing features controlled conductivity and strength for easier printing, especially large, complex copper components, such as rocket chambers, through adapting its mechanical characteristics and thermal conductivity for use in aerospace.

Morf3D is a manufacturing technology solutions company specializing in developing production lines of metallic components for aerospace and defense applications. They lead the U.S. in providing engineering and manufacturing solutions for complicated propulsion and thermal management parts which include flight certifications required for the aerospace industry. We believe that collaborating with Morf3D, whose customers include major world space industry leaders, promotes the sustainability and verification standards of today's space marketplace.

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: Copper chromium alloy powder for 3D printers

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