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Materion Awarded Two Patents for the Fabrication Process of BrushForm® 158

Company completes its third patent in 2016 for ToughMet® Alloys

MAYFIELD HEIGHTS, Ohio--(BUSINESS WIRE)-- Materion Performance Alloys, a Materion Corporation (NYSE:MTRN) business, announced it has received two patents for processes that improve the fabrication of BrushForm® 158 (BF 158), the strip form of the company's high-strength, copper-nickel-tin ToughMet® alloy. The patents cover new manufacturing technologies that combine multiple steps of thermal and mechanical processing to produce an alloy with increased strength and improved formability.

The new patents, US #9487850 B2 and US #9518315 B2, protect technology used by Materion to manufacture its advanced materials for use in the aerospace, energy and electronic markets. The company received three patents in 2016 for its improvements to the fabrication process of ToughMet alloys.

"The process allows for fine dispersion of tiny precipitates in the strip which provides the enhanced properties," said W. Glenn Maxwell, President, Materion Performance Alloys and Composites. "These advances and increased complexity in our manufacturing processes enable us to produce stronger products with enhanced formability for our customers, while helping to reduce the cost of finished components."

BF 158 is designed for next-generation electronics devices. The copper-nickel-tin alloys provide optimal strength in very thin gauges, making them ideal for use in devices such as smartphones, tablets and cameras. The alloys offer higher strength than other copper alloys and do not contain beryllium, so it can be used when a beryllium-free alloy is desired. The materials are RoHS compliant and infinitely recyclable.

Materion Corporation is headquartered in Mayfield Heights, Ohio. Through its businesses, Materion supplies worldwide markets with alloy products, beryllium products, electronic products, precious metal products, and engineered material systems. Around the world, the company's engineered materials can be found in technically demanding end-use products within the telecommunications and computer, automotive electronics, appliance, industrial components, plastics tooling, optical media, oil and gas, aerospace and defense, and off-highway and mining equipment markets. Visit http://www.Materion.com for more information.

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