

Materion Corporation Logo

Materion's SupremEX® Receives Second SAE-AMS Specification

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New Specification for SupremEX 640XA Provides Additional Materials Option for Engineers

MAYFIELD HEIGHTS, Ohio--(BUSINESS WIRE)-- Materion Corporation (NYSE:MTRN) announced that the Society of Automotive Engineers - Aerospace Material specification Nonferrous Alloys Committee (SAE-AMS) has approved specification of AMS4368 for Materion's SupremEX® 640XA. The AMS specification allows engineers to reference a national standard for material properties and ensures supply is available to meet demand. This is Materion's second AMS specification for a SupremEX metal matrix composite.

A high quality aerospace grade aluminum composite, SupremEX 640XA, is used heavily in applications for national defense, aviation and space. It provides improved performance in aero-engine components and aircraft structures because it is 60 percent lighter than steel and 36 percent lighter than titanium, yet offers high strength, stiffness and fatigue properties that significantly increase a component's capability and useful life.

SupremEX also provides superior damage tolerance and improved wear resistance when compared to conventional alloys. With a low coefficient of thermal expansion, components made of this composite will not deform over the range of temperatures experienced during flight.

"Other Materion aerospace-grade products have earned SAE-AMS specifications, including SupremEX 225XE, so we understand the value of this designation," said W. Glenn Maxwell, President, Materion Performance Alloys and Composites. "With this specification, it's much easier and faster for engineers to include the material in their designs and recommend it to new customers. In fact, many engineers will not consider using materials without SAE-AMS specifications."

SupremEX 640XA is reinforced with 40 percent silicon carbide particles and is manufactured using a proprietary mechanical alloying process to ensure a homogenous reinforcement distribution. It provides a refined grain structure and enhanced mechanical properties, making it an ideal replacement for aluminum, titanium, steel and other structural alloys and composites.

About SAE:

SAE International is a global association of more than 138,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. Standards from SAE International are used to advance mobility engineering throughout the world. The SAE Technical Standards Development Program is among the organization's primary provisions to the industries it serves. Today's SAE standards product line includes almost 10,000 documents created through consensus standards development by more than 240 SAE Technical Committees with 450+ subcommittees and task groups. These works are authorized, revised, and maintained by the volunteer efforts of more than 9,000 engineers, and other qualified professionals from around the world.

About Materion:

Materion Corporation is headquartered in Mayfield Heights, Ohio. The Company, through its wholly owned subsidiaries, supplies highly engineered advanced enabling materials to global markets. Our unique product portfolio includes [high performance alloys](#), [beryllium products](#), [clad metal strip](#), [composite metals](#), ceramics, [inorganic chemicals](#), [microelectronics packaging materials](#), [precision optics](#), [thin film coatings](#) and [thin film deposition materials](#).

Learn more about Materion at (<http://materion.com/About>).

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