



Company Profile

Aerospace Fabrication & Materials, LLC (AFM) designs, manufactures, and installs Multi-Layer Insulation (MLI) Blankets and associated passive thermal control parts for aerospace and cryogenic applications. Our team of experts is ready to assist you in fulfilling your thermal control needs. We provide a wide array of services that can be matched to your project requirements; large to small, engineering intensive to build-to-print. We work to create win-win partnerships with our clients. Let us guide you through the process of completing your project.



AEROSPACE
Fabrication

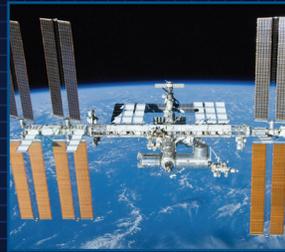
Engineered for the Extreme.®



Listen. Evaluate. Innovate.



Cryogenic



Space



LISTEN. EVALUATE. INNOVATE.

Aerospace Fabrication & Materials manufactures Multilayer Insulation (MLI) Blankets for aerospace and cryogenic systems. Utilizing our capabilities of sewing, taping, and sealing, our team produces a wide array of soft good products including Micro Meteoroid Orbital Debris (MMOD) Shields, Corrosion Protection Covers, and Inflatable Systems.

Our team of seasoned managers, engineers, inspectors, and fabricators have decades of industry experience with films, foils, and fabrics designing passive thermal control solutions for a vast array of projects. This background and our unparalleled focus on MLI Blanket solutions have led us to become the trusted source for multilayer insulation.

The Engineering team at AFM is experienced in completing projects that require material selection, blanket test, design & development, manufacturing, and installation. We practice concurrent engineering. Each project presents unique fabrication requirements. Our extensive background working with thin films, foils, and fabrics along with a variety of fabrication techniques allows us to tailor our designs and products to your needs while we work in tandem with your engineers to ensure seamless project completion.

Part design is completed through on-site fit checks, mold fabrication, and actual part tailoring. We can assist you in the development of templates and molds that may be used to aid in the design, assembly, and verification phases of your product. Molds can be manufactured based on drawings or CAD files. We can service IGES, DWG, DXF, and STP formats. We work in AutoCAD, Solidworks, and CREO. With our design-to-fit background, we can provide customized production planning for each part.

Our engineering staff is available to support on-site design, formal reviews, or other efforts as required. Aerospace Fabrication technicians and engineers have templated, manufactured, fit-checked, and installed MLI blankets and thermal control products on a wide variety of spacecraft and cryogenic structures around the United States and Internationally.

CAPABILITIES

Fabrication

- Sewing
- Edge Taping
- Impulse or RF Sealing
- Riveting
- Ultra-sonic Welding
- Cleanroom Material Handling
- Electrical Ground Assembly

Field Service

- Custom shape determination
- Fit check
- Installation
- Field repair

Engineering Services

- Analysis
 - Thermal Performance
 - Material Capabilities
 - Pressure/Load Factors
- Concurrent Engineering
 - CAD software (AutoCAD, SolidWorks, CREO)
 - Gerber CNC Cutter

QUICK FACTS

- Established in 1999
- 20,000 sf Corporate Headquarters
- > 3,000 sf of Class 10,000/ISO 7 Cleanroom Space
- Average tenure >10 Years

Engineered for the Extreme.™

