



## Furniture Industry Solutions

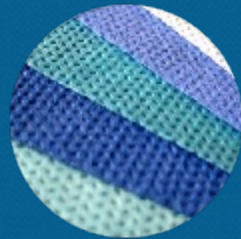
### ACME MILLS: ELEVATING FURNITURE TEXTILES

In the furniture industry, style, durability, and comfort are essential. Acme Mills leverages over a century of expertise in industrial textiles to provide innovative solutions that enhance furniture design and performance.



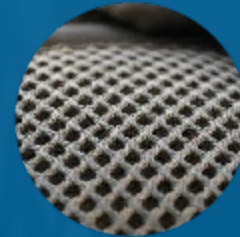
Our furniture-focused textile solutions are crafted to deliver superior durability, aesthetics, and functionality. From resilient upholstery fabrics to custom-engineered materials, Acme Mills offers premium quality to meet the evolving demands of furniture manufacturers.

## Our Solutions Include:



### NONWOVEN FABRICS

High-performance materials for use in cushion linings, padding, and backing.



### ECO-FRIENDLY FABRIC OPTIONS

Sustainable textiles designed to support environmentally conscious manufacturing.

## Why Choose Acme Mills?

- ✓ **Custom Solutions:** Collaborative development of tailored textiles for your specific applications.
- ✓ **Proven Expertise:** Decades of experience providing reliable solutions to the furniture industry.
- ✓ **Innovation:** Cutting-edge materials designed to enhance product performance and reduce operational costs.
- ✓ **Sustainability:** A commitment to eco-friendly options that align with your sustainability goals.



## Applications for the Furniture Industry

- ✓ **Upholstery and Cover Fabrics:** Resilient, stylish textiles for sofas, chairs, and other upholstered furniture.
- ✓ **Cushion and Lining Materials:** Nonwoven fabrics for enhanced comfort and structure in cushions and seating.
- ✓ **Backing and Reinforcement Fabrics:** Strengthened layers for improved durability and longevity.

## A Trusted Partner in Furniture Innovation

Acme Mills is your trusted partner in furniture innovation, providing high-quality materials and solutions to support the design, performance, and sustainability of your products. **Discover how our expertise can help you craft exceptional furniture.**



## Case Study

### Aerospace Seating

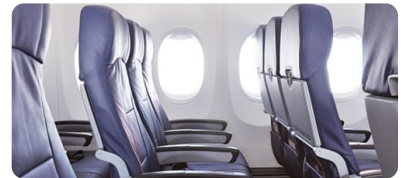
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**Summary:** Acme Mills collaborated with a leading airline to enhance their seating solutions by introducing Dymetrol®, an innovative suspension fabric. This partnership aimed to improve passenger comfort, reduce seat weight, and increase design flexibility, resulting in significant operational benefits for the airline.

### Project Specifications

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- ⚙️ **Material Supplied:** Dymetrol® suspension fabric, a polyester-based material known for its durability and recyclability.
- ⚙️ **Application:** Integrated into the airline's seating to replace traditional components such as springs, polyurethane foam, wires, clips, and insulators.
- ⚙️ **Quantity:** Sufficient material provided to retrofit the seating across the airline's fleet.
- ⚙️ **Delivery Schedule:** Coordinated with the airline's maintenance schedule to ensure timely installation without disrupting operations.



### Capacity and Scalability

Acme Mills demonstrated the ability to scale production efficiently, accommodating the increasing demands of both American Sunroof Corporation and Webasto Sunroofs. The company's advanced manufacturing capabilities enabled it to handle substantial orders while maintaining stringent quality standards.





## Manufacturing Details

### MATERIAL SELECTION AND PREPARATION

Dymetrol® is produced using high-quality polyester fibers combined with DuPont's Hytrel, creating bond points that act as spring sets.



### PRODUCTION PROCESS

**Weaving:** Utilizes a sateen weave to achieve the desired strength and flexibility.

**Heat Setting:** Bond points are heat-set to ensure uniformity and durability.

**Customization:** Fabric is tailored to specific widths and lengths to meet the airline's seating design requirements.



### QUALITY CONTROL

**Material Testing:** Conducted tensile strength and durability tests to ensure performance standards are met.

**Visual Inspection:** Checked for defects such as uneven bonding or impurities.

**Dimensional Checks:** Verified fabric dimensions to match the airline's specifications.

**Lot Tracking:** Implemented batch numbering for traceability and quality assurance.





## Uses and Applications

Dymetrol® offers several advantages in airline seating applications:



### ENHANCED COMFORT

Provides a supportive and comfortable seating surface by evenly distributing weight and reducing pressure points.



### WEIGHT REDUCTION

Eliminates the need for heavy metal seat pans and bulky foam, contributing to overall aircraft weight reduction and improved fuel efficiency.



### DESIGN FLEXIBILITY

Allows for innovative seat designs, including thin-profile seats that maximize cabin space.



### DURABILITY

Constructed with a sateen weave of polyester yarn and DuPont's Hytrel, ensuring long service life without deformation or sagging over time.



### SUSTAINABILITY

Made of 100% recyclable polyester, reducing environmental impact and minimizing the use of non-recyclable materials.

**Through the integration of Dymetrol® suspension fabric, Acme Mills successfully enhanced the airline's seating by improving passenger comfort, reducing seat weight, and allowing for innovative design solutions. This collaboration underscores Acme Mills' commitment to providing high-performance, sustainable materials for the aerospace industry, contributing to operational efficiency and passenger satisfaction.**

## Contact Acme Mills

Need assistance in maximizing manufacturing efficiencies to ensure quality and optimize costs? Call or email us today and one of our skilled team members will lead the way. (800) 521-8565 ~ [info@acmemills.com](mailto:info@acmemills.com)