



Specialists in the development and manufacture of performance fabric  
**Mesh • Netting • Solid Knits • Spacers • Inflatable Fabrics**



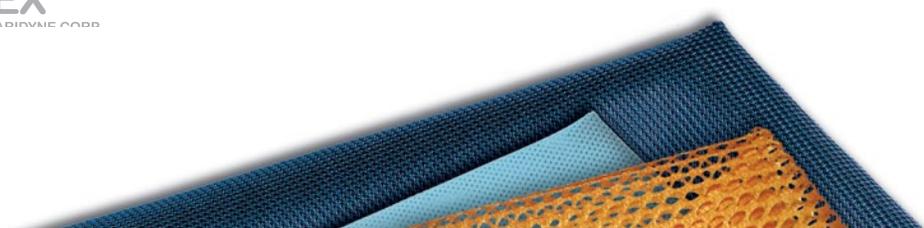
Corporate Offices:  
168 Doughty Blvd.,  
Inwood, NY 11096 USA

**1-800-989-APEX (2739)**  
**[www.apexmills.com](http://www.apexmills.com)**



## Performance Fabric Solutions

Apex Mills delivers application-driven solutions to meet customer's specific performance needs.



For over six decades, product designers have turned to Apex Mills for application-specific solutions. From automotive to medical to water treatment applications, our Fabric Solution Engineers have delivered results that position our customers to achieve their market and product goals.

Apex Mills is a trusted fabric solution provider to the U.S. military, proudly producing many fabrics to military specification. When high performance is required from a fabric, Apex is the one to turn to.

### Performance Fabrics Solution #16

**Problem Shared:** The U.S. Marines wanted a lining for their high-performance physical training outfits that would provide moisture management to keep service members dry, as well as be antimicrobial for odor resistance.

**Problem Solved:** Working in concert with a leading yarn manufacturer, we developed a proprietary fabric that, when incorporated into the lining, provided the moisture wicking and antimicrobial properties that completely fulfilled the Marines' requirements.

Apex Mills provides fabric solutions that enhance a customer's existing approach or offer a completely new and innovative one.

### Performance Fabrics Solution #4

**Problem Shared:** The City of New York's water treatment facility wanted to increase capacity without building additional treatment tanks. They needed a way to process more water without adding to their current infrastructure.

**Problem Solved:** We developed a patented, highly fibrous fabric called BioWeb, which maximized surface area and provided an environment conducive for biomass growth. This growth allowed water to return to the rivers nitrogen-free. The BioWeb solution increased output without increasing the operation's footprint. BioWeb Patent# 5,771,716

Customers rely on Apex Mills' collaborative insight and engineering ingenuity. Apex fabric solutions involve an ongoing interactive exchange focused on the problem to be solved and the performance attributes required.

### Performance Fabrics Solution #27

**Problem Shared:** The leading supplier of theatrical and event-oriented fabrics needed a performance fabric for ceiling panels at special events in convention halls. These fabrics needed to camouflage the mechanical components of the hall, such as electrical, climate control and water sprinkling systems. However, the fabric solution could not inhibit or impede the effectiveness of the sprinkler system in the event of a fire.

**Problem Solved:** Apex created a fabric with a combination of inherently fire retardant yarn and low-melt yarn. It was designed in such a way that the low-melt yarns would disintegrate with a fire's rising heat and the fabric would open like a louver to allow the water from the sprinklers to flow through.

To discuss your specific performance fabrics requirements, consult with an Apex Mills Fabric Solutions Specialist.

1-800-989-APEX (2739)  
[www.ApexMills.com](http://www.ApexMills.com)

