

MEDICAL TEXTILES TESTING

Demand for high-performance fabrics is growing in the medical textiles sector, resulting in the need to verify the function of special claims through testing of products such as surgical and non-surgical gowns, medical scrubs, and hospital bed linens.



Overview

Innovations in textile performance properties have resulted in the need for medical textiles suppliers to demonstrate functional properties such as antimicrobial, waterproof, and soil release, as well as safety attributes like flammability, through testing and verification. As a result, Intertek has identified capabilities throughout our laboratory network to support medical textile suppliers in ensuring special claims performance, as well as compliance with safety standards, in your products.

Standards Testing

Our capabilities include testing to the ASTM F2407-Standard Specification for Surgical Gowns Intended for Use in Healthcare Facilities. The tests we can perform from this standard follow.

- Impact penetration (AATCC 42), for AAMI PB70 levels 1, 2 and 3
- Hydrostatic resistance (AATCC 127), for AAMI PB70 levels 2 and 3
- Viral penetration resistance (ASTM D1671) for AAMI PB70 level 4
- Tensile strength (ASTM D5034)
- Tear resistance for woven (ASTM D5587)
- Tear resistance for non-woven (ASTM D5733)

- Seam strength for woven and non-woven materials (ASTM D1683)
- Seam strength for stretch woven and knit materials (ASTM D751)
- Wearing apparel flammability (16 CFR 1610)
- Evaporative resistance ASTM F1868

Special Claims Testing

Intertek also has expertise in testing for special claims associated with products, including, but not restricted to the following.

- Antimicrobial Claims Testing in original and/or after prescribed number of washes:
- Antibacterial testing on textile materials- quantitative (AATCC 100) and quantitative (AATCC 147)
- Antifungal activities (AATCC 30)
- AATCC 130 Soil release with custom reagents such as artificial blood and other stains
- AATCC 118 Stain resistance
- AATCC 79 Absorbency
- ASTM 737 Air permeability
- Commercial laundering performed repeatedly to evaluate if the stability and appearance diminishes over time
- AATCC 76 Electrostatic resistance
- ASTM B117 Corrosion resistance on metals

Additional Services for Textiles

- Fiber and care labeling
- Fabric durability (such as stretch and recovery, abrasion resistance, pilling, etc.)
- Pocket attachment strength
- Colorfastness testing
- Dimensional and appearance
- pH and formaldehyde
- Trim attachment strength
- 16 CFR 1615/1616 Children's sleepwear flammability
- Benchmark analysis
- Client witness testing

FOR MORE INFORMATION



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