



## Medical Textile Testing

With the growing demand for improved material properties and performance in medical wear or gowns, Element has focused its capabilities towards helping textile suppliers ensure their medical materials and gowns comply with the required safety standards. Our comprehensive testing includes all methods for ASTM F2407 and extends into additional testing of textiles, such as flammability, water resistance, tensile strength, seam strength, lint generation, evaporative resistance, colorfastness, fabric durability and more. The table below provides a quick glance of testing requirements for isolation and surgical gowns to eliminate the guesswork involved in finding the tests you need.

Testing Requirement		Isolation Gowns	Surgical Gowns
Biocompatibility		AAMI/ANSI BE78 ISO/ANSI/AAMI 10993-10	ISO/ANSI/AAMI 10993-10
*Multiple-use gowns/laundrying		AAMI ST65	N/A
*Sterility Assurance Level; must be received sterile or must sterilize		ISO 11134, ISO 11135, ISO 11137 or ISO 13683	N/A
Flame Spread		16 CFR 1610	N/A
Barrier Performance (ANSI/AAMI PB70)		AATCC 42	AATCC 42
		AATCC 127	AATCC 127
		ASTM D1671 (Level 4 only)	ASTM D1671 (Level 4 only)
Physical Property Requirements	tensile	ASTM D5034	ASTM D5034
	tear	ASTM D5587 (woven) D5733 (non-woven)	ASTM D5587 (woven) D5733 (non-woven)
	seam strength	ASTM D751	ASTM D1683
	lint generation	ISO 9073 Part 10	Optional: ISO 9073 Part 10
	evaporative resistance/water vapor transmission rate	ASTM F1868 Part B or ASTM D6701 (non-woven and plastic barrier materials)	Optional: ASTM F1868 Part B or ASTM D6701 (non-woven and plastic barrier materials)
	Martindale abrasion resistance	N/A	Optional: ASTM D4966
	flex durability	N/A	Optional: ASTM F392

\*We are not ISO 17025 accredited for this specific test. Approval must be given by customer to outsource testing.