BRAIN WAVE
MEDICAL SUPPLIES

Protective Apparel

Understanding gown materials

Levels of Barrier Protection (from AAMI PB70:2012)

Spunbond polypropylene

For basic coverage, this non-woven fabric bonds fibers together to form a single layer.

SMS material

Spunbond/meltblown/spunbond (SMS) is a multi-layer fabric composed of inner layers of meltblown polypropylene between outer layers of spunbond polypropylene.

Coated polypropylene (poly-coated)

Soft, spunbond polypropylene is coated with a layer of polyethylene (plastic) film.

Polyethylene film

Polyethylene (plastic) film is composed of a single layer of film and depending on thickness can be appropriate to low to moderate fluid exposure. Our full line of single-use isolation gowns are madefrom light weight and medium weight nonwoven materials alone or in combination with materials such as plastic films which offer increased protection against liquid penetration,which meet meet the test requirements set forth by the Association for the Advancement of Medical Instrumentation (AAMI) PB70.

Unique material combinations ensure superiorprotection, comfort, and durability. Disposable PPEisolation gowns and protective gowns are a criticalcomponent for minimizing the exposure risk toHospital-Acquired Infections (HAis) throughout healthcare facilities. We take pride in providing the highest quality solutions for every application.

The chart below outlines AAMI PB70 guidelines.

ANSI/ AAMI PB70 Barrier Performance	**Test Method** Water Resistance	**Test Definition** AATCC	**Requirement**
Level 1	AATCC 42 Impact Penetration	AATCC42 Measures the resistance of fabrics to the liquid penetration of water by impact.	Water Impact </=4.5 g
Level 2	AATCC 42 Impact Penetration AATCC 127 Hydrostatic Pressure	AATCC42 Measures the resistance of fabrics to the liquid penetration of water by impact. AATCC 127 Measures the resistance of fabrics to the liquid penetration of water by impact under constant and increasing hydrostatic pressure .	Spray Impact </= 1.0 g Hydrostatic Pressure >!= 20 cm
Level 3	AATCC 42 Impact Penetration AATCC 127 Hydrostatic Pressure	AATCC42 Measures the resistance of fabrics to the liquid penetration of water by impact. AATCC 127 Measures the resistance of fabrics to the liquid penetration of water by impact under constant and increasing hydrostatic pressure.	Spray Impact </= 1.0 g Hydrostatic Pressure >/= 50 cm

AAMI Isolation Gowns

Why AAMI?

AAMI Guidelines: A Reliable Benchmark for Protection

Under AAMI Guidelines, protective apparel must meet minimum performance standards for strength, barrier protection and fluid resistance to ensure the safety of healthcare workers and patients.

510K Number:K171535

AAMI LEVEL 1 **AAMI LEVEL 2** **AAMI LEVEL 3**

Back, wrist, and neck style designs can vary from gown to gown.
Use this style guide to understand the differences.

Back Style Options

Full Back

Open Back

Wrist Style Options

Knit Cuff

Thumb Hook

Elastic Wrist

Neck Style Options

Tie-neck

Tape Tab

Over-the-head

AAMI Isolation Gowns

AAMI Level 1 Isolation Gown

- Made from multi-ply material
- Side ties eliminate the difficulties of tying behind the back
- Choose between over-the-head or neck tie styles
- Elastic wrists or Thumbs loop

AAMI Level 2 Polyethylene-Coated Isolation Gown

- Made from poly-coated material
- Over-the-head style
- Available with elastic wrists.thumb loops or knit cuffs

AAMI Level 2 Isolation Gown

- Made from multi-ply material with side ties to eliminate the difficulties of tying behind the back
- Choose between over-the-head or tape tab neck styles
- Available with elastic wrists.thumb loops or knit cuffs

AAMI Level 3 Isolation Gown

- Comfortable and breathable materials with classic tie waist
- Choose between tape tab, hook and loop and over the head styles
- Available with elastic wrists. knit cuffs. or thumb loops

Gown Features

Side ties
Available on AAMI Level 1, 2 and 3 gowns

Neck tie style
Available on AAMI Level 1 gowns

Thumb loop wrists
Available on AAMI Level 1, 2 and 3 gowns

Tape tab neck style
Available on AAMI Level 2 and 3 gowns

Protective Gowns & Lab Coats

CPE Thumbs Up gowns

- Made from blue impervious CPE material
- Material passed AAMI Level 3 test methods
- Apron-style neck enables gown to be placed on and off quickly
- Thumb loop style wrists keep sleeves from sliding
- Individually folded

Economy Spunbond Polypropylene

- Made from polypropylene material
- Available with pockets or without pockets
- Elastic wrists
- Front closure with snap or velcro
- White and blue color

Multi-lay er SMS

- Made from fluid resistant multi-layer material
- Knit wrists and collar
- Front closure with snap or velcro,
- White and blue color

Microporous

- Made from laminated microporous material
- No pockets or with pockets
- Elastic or knit wrists
- Front closure with snap
- Available in white color

High Performance Surgical Gown

5-layer anti-static breathable SMMMS fabric with AR+AS Treatment

- High level anti-static treatment
- Excellent microbial barrier
- Excellent physical barrier to contaminants and fluids
- Stronger fabric with a matte finish, resistance to tears
- “Softer fabric with comfort inside and outside
- Book fold is available
- Ultrasonic sealed seam or
  Three thread over-lock Serged seam

Raglan Sleeve

Ser-in Sleeve

High Performance Surgical Gown

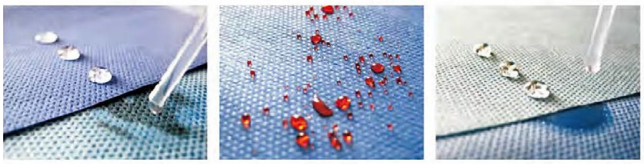
Critical Zone Reinforced

PE or Fabric internal strengthening to grant the maximum protection against possible blood and blood products contaminations.

PP+PE, SMS, Impregnated paper
All 3 kinds of reinforcement pads can be applicable for reinforced surgical gowns

This high performance nonwoven fabric is made by Reifenhauser IV line.

The new SMMMS fabric is available with antistatic and alcoholrepellent finishes. It delivers high fluid and particulate barrier and is soft, strong and low in lint. Compatible with ethylene oxide, steam, and gas plasma sterilization, it is available for AAMI PB70 Level 3 and EN 13795 High Performance.



Spunlace Basic Surgical Gown

It is made of polyester reinforced cellulose nonwoven (Spunlace) with anti-static and fluid resistance. The extreme softness provide surgical gowns cloth-like feel and a good level of comfort for those who spend much of their day in a surgical gown. It keeps wearers cool and comfortable.

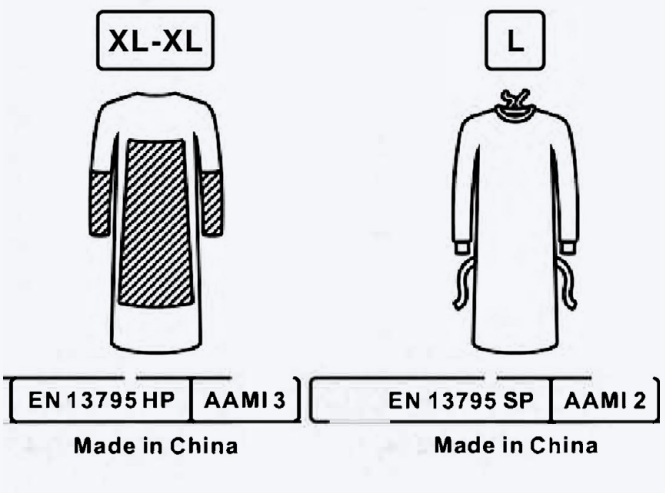
For light to moderate blood exposure, protecting surgeon, first assistance and scrub nurses. Earns AAMI Level 3 Protection and EN 13795 with Reinforcement.

Features

- Soft spunlace fabric (made of wood pulp and polyester)
- Fluid repellent
- Generous cut
- Velcro neck binding
- Book fold
- Sterile by ETO
- Ultrasonic sealed seam
- Critical zone reinforced optional

Spunlace Reinforced Surgical Gown

PE or Fabric internal strengthening to grant the maximum protection aga inst possible blood and blood products contaminations.



Coveralls

A wide selection of coveralls for every situation

Heavy fluids and tough jobs require a strong and protective material such as our microporous breathable material.

Need coverage for light jobs or to cover clothing?
Try our Spunbond Coveralls

Breathable Coveralls

- Made from microporous breathable laminate material
- Liquid and Particle Protection in lightweight protective clothing
- Comfortable for extended periods
- Elastic Wrist and Ankle
- Available in white

Multi-Layer Coveralls

- Made from fluid-resistant material
- Good combination of comfort and protection
- Elastic Wrist and Ankle
- Available in white and blue

Spunbond Coveralls

- Made from heavyweight polypropylene material
- Breathable fluid-repellent material
- Elastic Wrist and Ankle
- Available in white and blue

Flame Resistant Coveralls

- Made from spunlace,55% wood pulp,45% polyester
- Protects against dirt, grease and light liquid splash.
- Elastic Wrist and Ankle
- Available in blue

Understanding EN 14126 Protection AgainstInfectious Agents

Healthcare workers are at risk of being exposed to body fluids that are capable of transmitting diseases. International standards define the performance requirements for protective clothing or materials used to protect against such risks.

In the European Union, the EN 14126 standard for protective clothing against infectious agents specifies the ability of a suit or gown in protecting users against bacteria, fungi and viruses. EN 14126 outlines different test methods (shown in the table below) to measure the penetration resistance of the garment material against infective agents under different kinds of exposure level.

Tests Outlined Under EN 14126

Test Method	Description	Classes	Contaminant	Contaminant Size
ISO 16603	Screening test for ISO 16604.	None	Synthetic blood	
ISO 16604	Classification of resistance to penetration by contaminated liquids under hydrostatic pressure.	1 to 6 (6 being the highest)	Bacteriophage (Phi-X 174)	0.027µm
ISO 22610	Classification of resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids.	1 to 6 (6 being the highest)	Staphylococcus Aureus	(Up to) 1.0µm
ISO 22611	Classification of resistance to penetration by contaminated liquid aerosols	1 to 3 (3 being the highest)	Staphylococcus Aureus	(Up to) 1.0µm
ISO 22612	Classification of resistance to penetration by contaminated solid particles.	1 to 3 (3 being the highest)	Bacillus Subtilis	4-10µm (length) 0.25-1.0 (diam) µm

Microporous Taped Seam Coveralls Category III

- Made from microporous breathable laminate material
- Taped seam across the suit to improve protection and duarability
- Front zipper with flap
- Elastic Wrist and Ankle
- Available in white

Footwear

Spunbond Shoe Covers

- Made from spunbond polypropylene material
- Lightweight, comfortable
- Available with or without skid-resistant tread

Multi-Layer Shoe Covers

- Made from multi-ply fluid-resistant material (SMS)
- Available with or without skid-resistant tread
- Elastic ankle

Non-Skid PE Coated Shoe Covers

- Made from skid-resistant PE-coated material
- Water resistant
- Elastic ankle

Non-Skid CPE Coated Shoe Covers

- Made from fluid-repellent CPE-coated material
- Elastic ankle
- Available with white and blue color

Polyethylene Shoe Covers

- Made from CPE plastic material that resists high levels of fluid
- Smooth or embossed bottom
- Elastic ankle

Medical mask

- EN14683
  Type I/ II/ IIR

- ASTM F2100
  Level 1 2 3
  510K Level 2 K123787
  510K Level 3 K222266

Medical Scrubs

- 99% germs killing
- Highly durable
- Odor reduction
- Soft to skin
- Hypoallergenic

Double chest pocket for smart storage

Side slit hem for easy movement

Wrinke reistant

Reusable

Single-use

Styles