



HIGH PERFORMING MEDICAL FABRICS

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<https://ahlstrom.nt-rt.ru/> || ame@nt-rt.ru

PROTECTION. COMFORT. PERFORMANCE.

For decades Ahlstrom-Munksjö has been making nonwoven medical fabrics that are used around the world in surgical and clinical environments to protect healthcare workers and patients.

Experts in barrier protection

Ahlstrom-Munksjö medical fabrics are the essential component in the construction of surgical gowns and drapes, pleated face masks and protective apparel.

- Highly breathable*
- Excellent barrier protection
- Soft to the touch
- Lightweight
- Low noise
- Comfortable
- Fluid repellent
- Durable
- Low lint

* TrustShield™ is non-breathable

Innovative technology that provides the highest level of protection

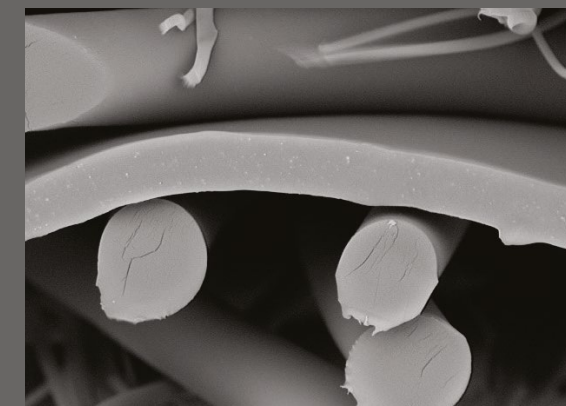
Ahlstrom-Munksjö's Breathable Viral Barrier (BVB) product portfolio consists of medical fabrics that are constructed with a tri-laminate fabric. This unique technology provides protection and comfort which is difficult to achieve together.

INNER LAYER, SOFT TO THE TOUCH FOR COMFORT.

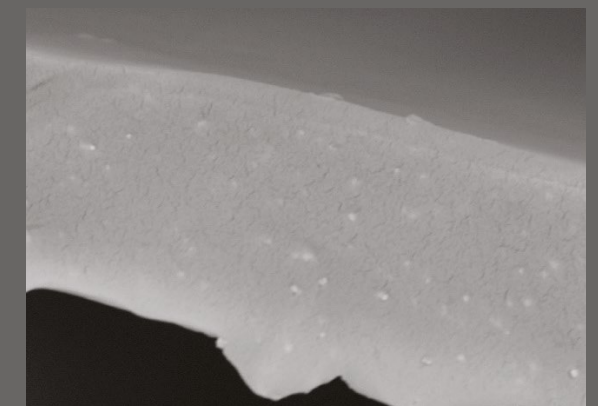
BARRIER LAYER WITH MONOLITHIC FILM MEMBRANE MAKING IT IMPERVIOUS TO PATHOGENS.

OUTER LAYER IS FLUID REPELLENT AND DURABLE.

Ahlstrom-Munksjö monolithic film



Chemical structure of the film allows moisture vapor to pass through keeping the wearer cool and dry.



Non-porous. Durable, maintains form under pressure ensuring no compromise in protection.

Ahlstrom-Munksjö's medical business has a diversified product portfolio

Product	Application	Construction
ViroSēl™	Surgical gown	Monolithic Film Tri-laminate (SMS, Bico or PP Spunbond nonwovens)
PureArmor®	Personal protective apparel for sensitive environments	Monolithic Film Tri-laminate (SMS, Bico Spunbond nonwovens)
TrustShield™	Surgical drape or gown, personal protective apparel	Bi-laminate (Spunbond or SMS nonwovens)
Face Mask	Pleated surgical face mask	Wetlaid
VaporCool™	Surgical scrub suit	Anti-static treated SMS
TenderGuard™	Surgical gown or drape	Alcohol repellent, anti-static treated SMS

that covers a wide range of applications and several product segments.

Description	Basis Weight	Certifications
Breathable viral barrier fabric with a monolithic film designed to provide impervious protection in highly critical areas.	50 - 70 gsm	ANSI/AAMI (Level 4) PB70:2012 EN 13795 (high performance critical zone)
Breathable viral barrier fabric with a monolithic film for superior protection. Specially designed with technology that achieves extremely low levels of lint.	50 - 70 gsm	EN 14126 ASTM 1671
High protection fabrics that are laser resistant, protect against chemical permeation, biological hazards and are highly absorbent.	40 - 60 gsm	ASTM 1670 ASTM 6978
Hypoallergenic fabric that is smooth and soft, ideal for sensitive skin contact.	18 - 20 gsm	N/A
SMS fabric with an innovative layer called, Adaptive™, a hydro-functional polymer that captures and distributes moisture.	20 - 55 gsm	EN 13795 (standard performance non-critical zone)
SMS multilayer nonwoven fabric offering a high level of protection, low lint, and superior strength and repellency to blood and low surface tension liquids.	20 - 55 gsm	ANSI/AAMI (Level 3) PB70:2012 EN 13795 (standard performance critical zone)



ViroSēl™

ViroSēl™ is Ahlstrom-Munksjö's next generation BVB fabric that is designed to protect you in the most critical surgical environments. The specially formulated fabric provides the opportunity to create robust seam seals for the highly critical areas of a surgical gown.

- Viral resistant (AAMI Level 4) protection
- Breathable, lightweight and low-noise
- High moisture vapor transmission rate (MVTR)
- Fluid-repellent and durable
- Soft to the touch
- Reduces potential for shadowing
- Robust seam seal for highly critical areas



PureArmor®

PureArmor® BVB fabric is specifically developed for environments sensitive to particle contamination.

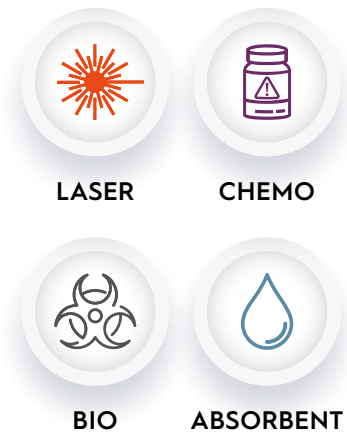
PureArmor® fabric is designed for PPE, safety or work wear.

- Viral resistant (AAMI Level 4) protection
- Highly breathable to keep the wearer cool
- Extremely low levels of lint, less prone to shedding
- Strong
- Soft
- Quiet

TrustShield™

The TrustShield™ product portfolio has single-use medical fabrics that are laser resistant, protect against chemical permeation, biological hazards and are highly absorbent.

- **Biological protection** (ASTM F1670) keeping healthcare staff and patients safe
- **Laser resistant** to avoid any penetration risks (ISO 11810:2015)
- **Repellent** to avoid fluids, chemical and chemotherapy drug permeation (ASTM D6978)
- **Highly absorbent** for fluid management and a cleaner operating room floor
- **Virtually no lint** eliminating any particle contamination
- **High strength** to resist puncture and tears
- **Sturdy**, easy to handle and convert



Face mask components

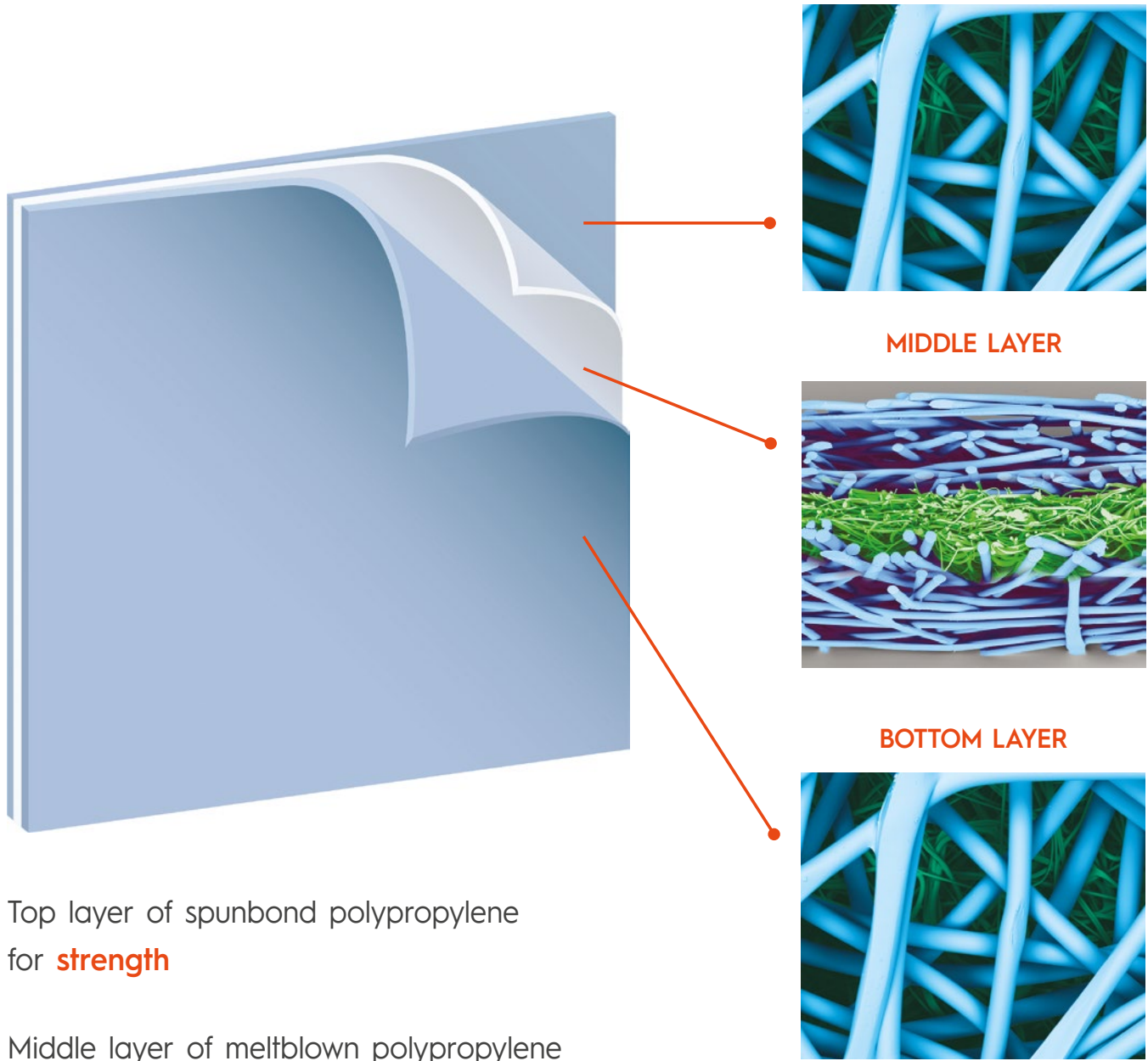
- Hypoallergenic
- Non-irritating
- Soft, gentle on the skin
- Lightweight
- Breathable
- Environmentally friendly*
- Comfortable for long durations
- Compliant with global standards

FSC: Responsibly managed forests that provide environmental, social and economic benefits. Certificate SGSNA COC-000205.



Spunbond Meltblown Spunbond (SMS)

A multi layer nonwoven fabric that is highly breathable and soft.

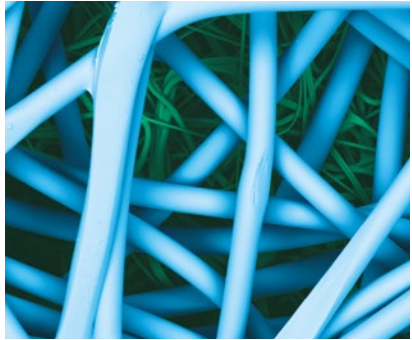


Top layer of spunbond polypropylene for **strength**

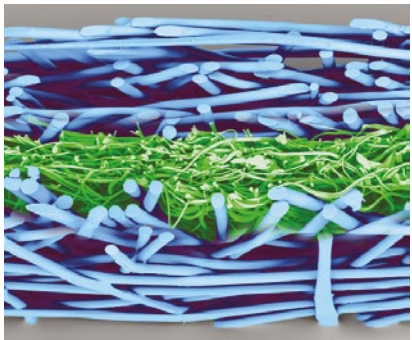
Middle layer of meltblown polypropylene for the **barrier**

Bottom layer of spunbond polypropylene for **strength**

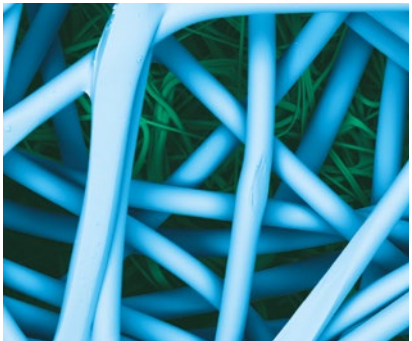
TOP LAYER



MIDDLE LAYER

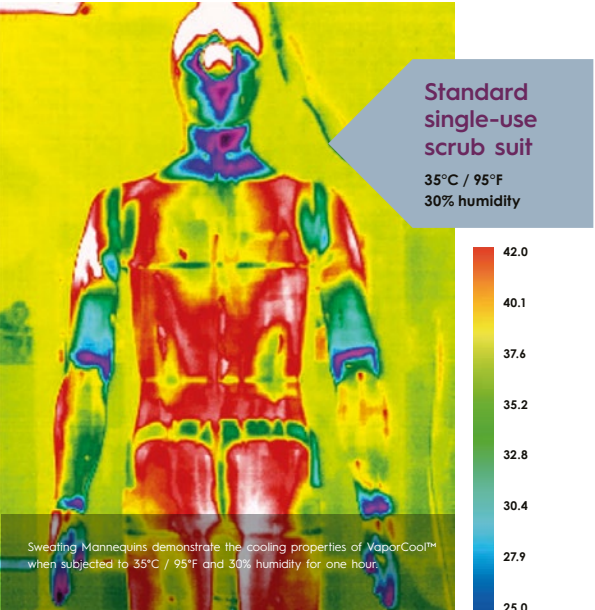
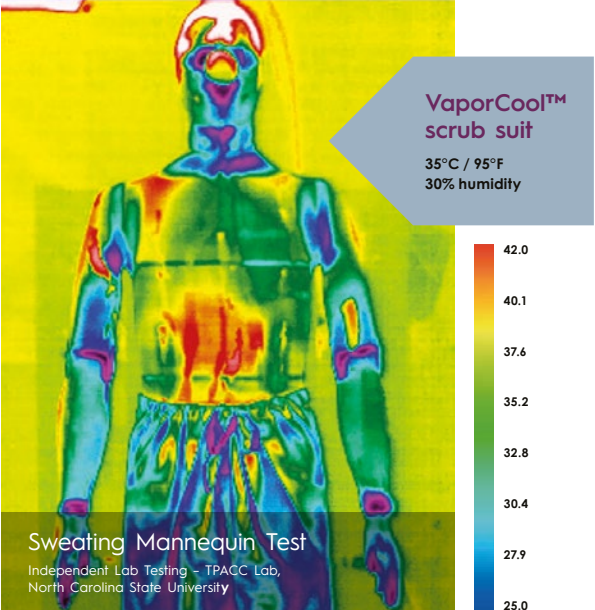


BOTTOM LAYER



VaporCool™

VaporCool™, Ahlstrom-Munksjö's innovative, single-use scrub suit fabric that offers outstanding comfort through moisture management keeping the wearer cool and comfortable.



TenderGuard™

TenderGuard™ is a soft SMS fabric designed for superior comfort, low lint and lower basis weight.

TenderGuard™ has high repellency to protect against low surface tension liquids such as blood, body fluids and alcohol.



The Ahlstrom-Munksjö difference



PROTECTION.



COMFORT.



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