



MEDICAL GOWNS

SCIENCE OF APPAREL, INC

FDA Approved Company with US Headquarters
FDA Certified Factories and Branch Office in Turkey
Quality Assurance at Origin

Rc@ScienceofApparel.Com
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WHY ARE SCIENCE OF APPAREL GOWNS SUPERIOR TO ALL OTHERS?

FABRIC

– Made of hydrophobic, non-woven polypropylene, on state-of-the-art German machinery, for maximum protection from fluid penetration. SMMS Spun-bond and melt-blown for greatest viral-combatting performance. 510K in process, AATCC 42 , AATCC 127, ASTM F1671, TESTED, OEKO-TEX Certified.

DESIGN

– LEAK-PROOF TECHNOLOGY (tm) Patent Pending. We believe these are the most protective in the industry. A gown is only as strong as its weakest point. That point is the seams. SA offers a line of gowns with no seam.

CONSTRUCTION

– Manufactured by SCIENCE OF APPAREL in ethically compliant, quality-controlled, FDA-regulated factories in Turkey.

LEVEL OPTIONS

– AMMI Levels 1, 2, 3, and 4. Sterile and non-sterile. With ultrasonic seam-welding construction option. White or medical blue. All FDA-Certified.

PRICING

– SCIENCE OF APPAREL offers our customers the lowest possible price starting at \$1.53, to support their important contribution in protecting those who protect us all against COVID-19

CAPACITY

– 1 million pieces per day with SCIENCE OF APPAREL office and QC in Istanbul.

COMPANY

– Dedicated to ethical textiles since 2012. “Regenerative Products for a Conscious Lifestyle.” Since early this year, SCIENCE OF APPAREL has pivoted to focus entirely on providing a full range of highest-quality, fairly priced PPE.



PATIENT ISOLATION GOWN LEVEL 1

DISPOSABLE ISOLATION GOWN

- FDA,CE **MADE IN TURKEY**
- LEVEL 1 FABRIC, LEVEL 1 GOWN CONSTRUCTION
- 40 GSM AAMI NONWOVEN SPUNBOUND PP SMS
- NON-STERILE
- FABRIC WITH FLUID BARRIER THROUGH SPLATTER , ANTISTATIC, AIR PERMEABLE, LINT FREE
- CONSTRUCTION LONG SLEEVES, ELASTIC CUFFS, BACK VELCRO NECK CLOSURE
- S, M, L, XL -115CM LENGTH/150CM CHEST
- CAPACITY: 1M PCS PER DAY
- MINIMUM FOB/CIF ORDER: 1M PCS
- LEAD TIME : 7-14 DAYS
- TRANSIT TIME: EU 1 WEEK TRUCK, US 1 WEEK AIR, US 3-4 WEEKS VESSEL
- PACKING: 1 PCS/BAG,100BAGS/CARTON



CONSTRUCTION DETAILS

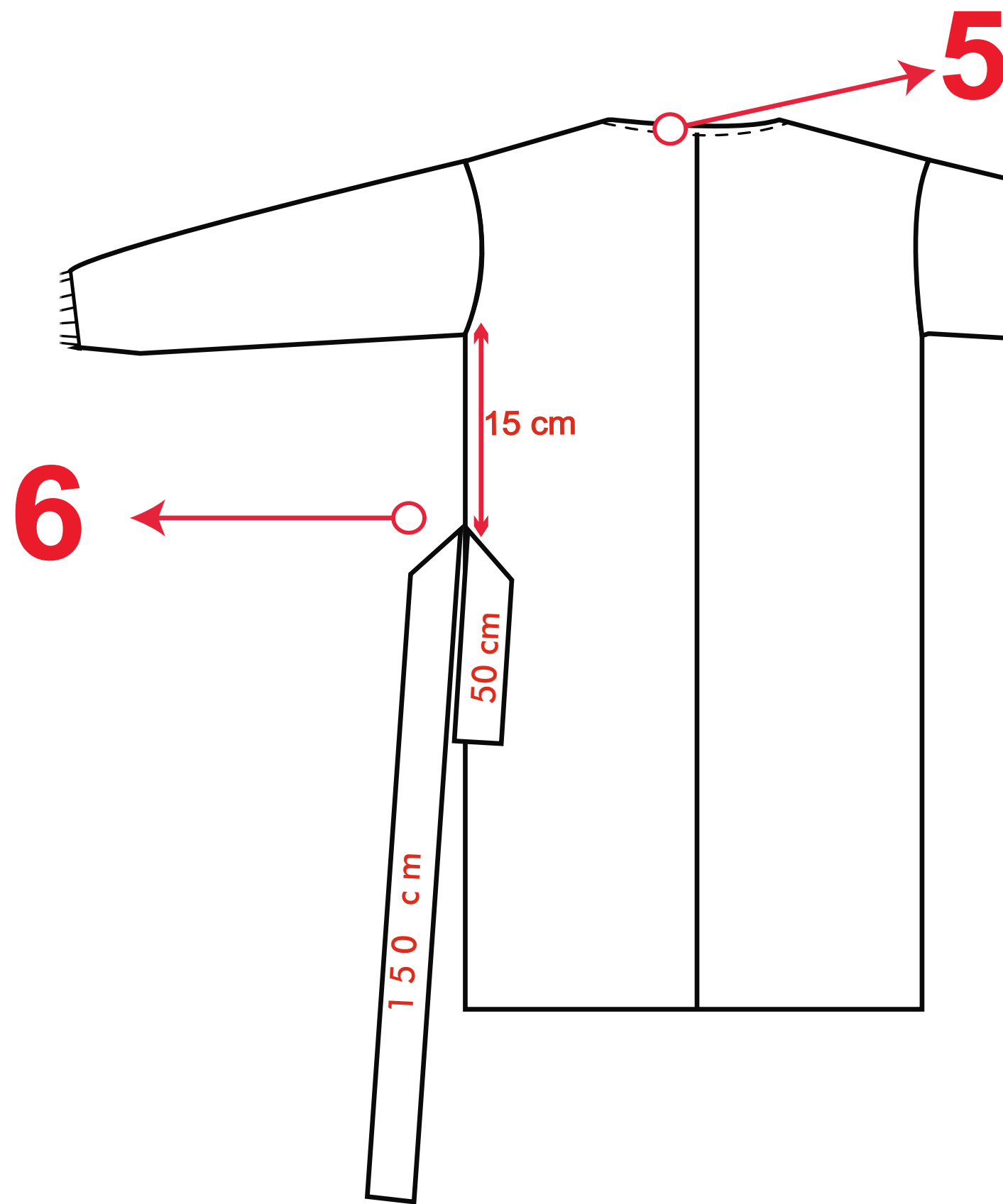
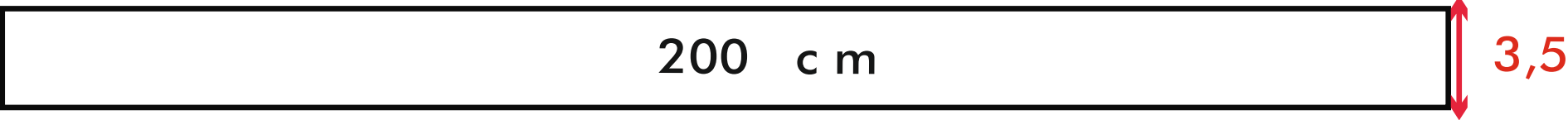
SHORT SIDE BELT



LONG SIDE BELT



TOTAL MEASUREMENT BELT



5- Back neck closure
2 X 4 cm VELCRO
1 cm FROM CENTER
BACK NECK BINDING



6- Belt attachment
35mm SINGLE STITCH
15 CM BELOW UNDERARM

PATIENT GOWN LEVEL 2

DISPOSABLE PATIENT SURGICAL ISOLATION GOWN

- FDA,CE **MADE IN TURKEY**
- LEVEL 2 FABRIC AATCC 42 , AATCC 127 TESTED, LEVEL 2 GOWN CONSTRUCTION
- 40 GSM AAMI NONWOVEN SPUNBOUND PP SMMS
- NON-STERILE (STERILE AVAILABLE)
- FABRIC WITH FLUID BARRIER THROUGH SPLATTER , ANTISTATIC, AIR PERMEABLE, LINT FREE,
- CONSTRUCTION LONG SLEEVES, ELASTIC CUFFS, VELCRO NECK,
- **LEAK-PROOF TECHNOLOGY (tm)** CONSTRUCTION PROTECTION AVAILABLE UPON REQUEST
- S, M, L, XL -115CM LENGTH/140CM CHEST
- CAPACITY: 1M PCS PER DAY
- MINIMUM FOB/CIF ORDER: 1M PCS
- LEAD TIME : 7-14 DAYS
- TRANSIT TIME: EU 1 WEEK TRUCK, US 1 WEEK AIR,US 3-4 WEEKS VESSEL
- PACKING: 1 PCS/BAG,100BAGS/CARTON





“LEAK-PROOF TECHNOLOGYtm”

GOWN CONSTRUCTION

SCIENCE OF APPAREL ERGONOMIC DESIGN FOR INNOVATIVE
“LEAK-PROOF TECHNOLOGY” SLEEVES WITHOUT SEAMS



STANDARD SURGICAL GOWN LEVEL 3

DISPOSABLE “LEAK-PROOF TECHNOLOGY” (tm) SURGICAL GOWN

- FDA,CE **MADE IN TURKEY**
- LEVEL 3 FABRIC, LEVEL 3 GOWN CONSTRUCTION, AATCC 42, AATCC 127 TESTED
- 55 GSM AAMI BREATHABLE TBS (TEXTILE BACK SHEET NON WOVEN FABRIC) PP SMMS + PE LAMINATE + MELTGLUE/33+20+2GSM
- STERILIZED OPTION BY EO (ETHYLENE OXIDE GAS)
- COLOR BLUE OR WHITE
- **LEAK-PROOF TECHNOLOGY (tm)** PROTECTION CONSTRUCTION
- FLUID BARRIER THROUGH SPLATTER, ANTISTATIC, AIR PERMEABLE, LINT FREE, LONG SLEEVES, ELASTIC RIB CUFFS, VELCRO NECK
- S, M, L, XL -120CM LENGTH/140CM CHEST
- CAPACITY: 1M PCS PER DAY
- MINIMUM FOB/CIF ORDER: 1M PCS
- LEAD TIME : 7-14 DAYS
- TRANSIT TIME: EU 1 WEEK TRUCK, US 1 WEEK AIR,US 3-4 WEEKS VESSEL
- PACKING: 1 PCS/ ASEPTIC APPLICATION, THERMOFORM BAG, IN STERILIZATION POUCH PACK



STERILE RE-ENFORCED SURGICAL GOWN LEVEL 4

- FDA,CE **MADE IN TURKEY**
- LEVEL 4 FABRIC, LEVEL 4 SURGICAL GOWN CONSTRUCTION
- AATCC 42 , AATCC 127, ASTM F1671 TESTED
- 55 GMS AMMI NONWOVEN PP TBS BREATHABLE TEXTILE BACKSHEET EXTRA LAYER FABRIC SMMS + PE + SB + GLUE
- STERILIZED BY EO (ETHYLENE OXIDE GAS) WITH STERILIZATION WRAP, 2 TOWELS
- COLOR MEDICAL BLUE OR WHITE
- DISPOSABLE SURGICAL GOWN, USED IN HIGH RISK SITUATIONS WITH SEAM LEAKAGE PROTECTION, ULTRASONIC SEAM WELDING AND RE-ENFORCED.
- HYDROPHOBIC, METAL FREE, IMPERMEABLE TO MICROBIAL MIGRATION, PREVENTS ALL FLUID PENETRATION FOR UP TO 1 HOUR, ANTISTATIC, AIR PERMEABLE, LINT FREE, LONG SLEEVES, ELASTIC RIB CUFFS, VELCRO NECK
- **LEAK-PROOF TECHNOLOGY (tm)** PROTECTION CONSTRUCTION AVAILABLE
- S, M, L, XL -120CM LENGTH/135CM CHEST
- CAPACITY 400K PCS PER MONTH WITH ULTRASONIC
- CAPACITY 6M PCS PER MONTH WITH **LEAK-PROOF TECHNOLOGY (tm)**
- MINIMUM FOB/CIF ORDER: 100,000 PCS
- LEAD TIME : 14 DAYS
- TRANSIT TIME: EU 1 WEEK TRUCK, US 1 WEEK AIR, US 3-4 WEEKS VESSEL
- PACKING: 1 PCS/ ASEPTIC APPLICATION, THERMOFORM BAG, IN STERILIZATION POUCH PACK



LEVEL 4 ULTRASONIC CONSTRUCTION



SIDE FASTENING INSIDE



SIDE BACK TIE



BACK VELCRO.



ULTRASONIC BONDING STITCHES



WHITE RIB CUFF

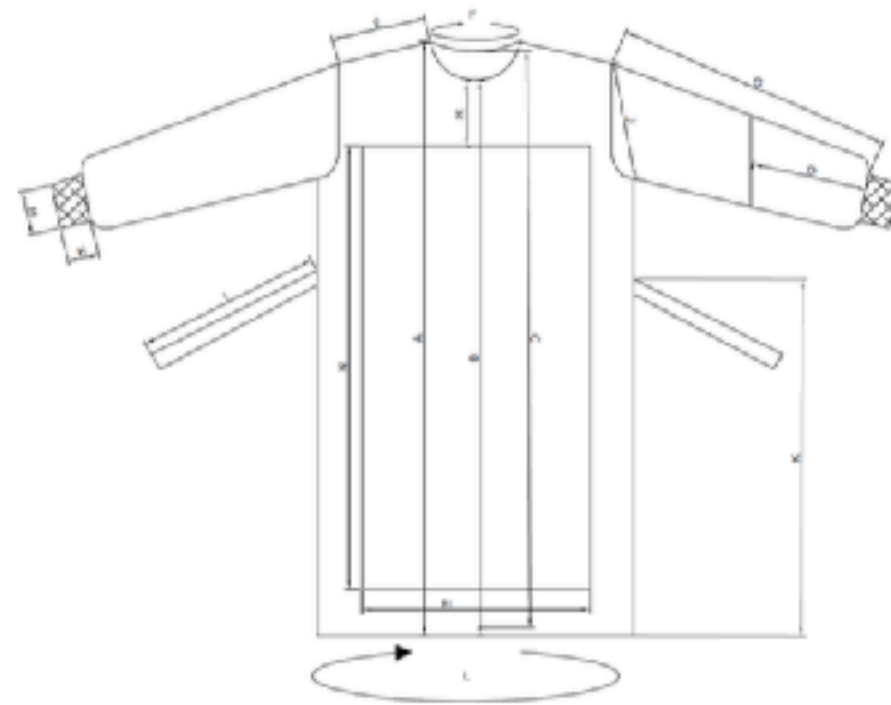


- LEVEL 4 BONDED RE-ENFORCED INTERIOR FRONT CHEST AND SLEEVES

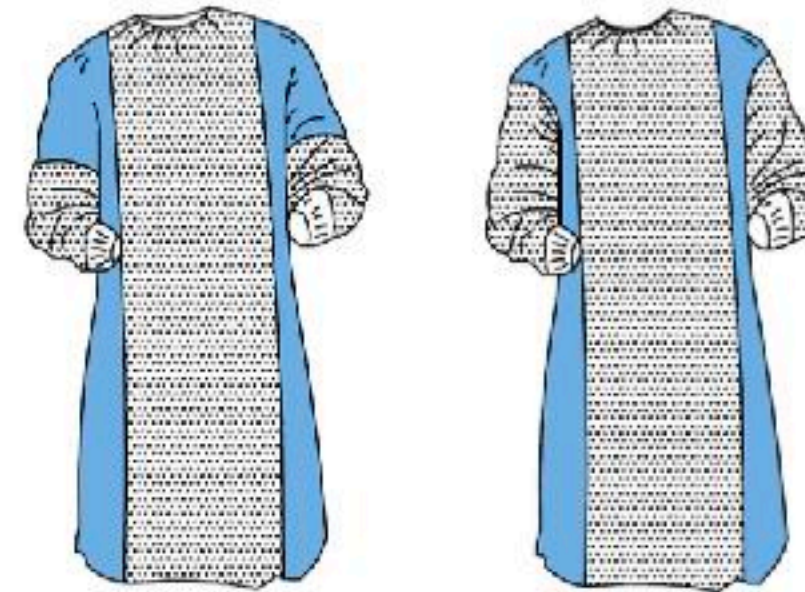


LEVEL 4

2.6. DIMENSION



	S	M	L	XL	XXL	TOL. %
A	112	115	123	135	148	±2
B	104.5	107.5	115	126.5	139.5	±2
C	109	112	119.5	131	143	±2
D	61	63	66	70	73	±2
E	17.5	18	19.5	21	22.5	±2
F	65.5	68	72	72	74	±2
G	57	58	59	60	63	±2
H	10/7	10/7	10/7	10/7	10/7	±2
I	70	70	70	70	70	±2
J	56.5	58	59	60	60.5	±2
K	63.5	66	73	84	96	±2
L	142	146	153	160	167	±2
M	46	47.5	50	53	58	±2
N	69.5	73.5	80	89	105	±2
O	33	33	35	35	36	±2
R	0	0	0	0	0	0



The dimensions of the gowns above are the Standard dimension of Baymed's reinforced surgical gown and can be as well customized depending on customers' request.

2.7. PACKAGING

Baymed Reinforced surgical gown is packed with a minimum of medical towels of size 40x40 cm. The gown with the towel are then wrapped in a bundle cover (Crepe Cover) made of SMMS nonwoven fabric a dimension of 50x50 cm.

The reinforced surgical gown in its sterilization pouch pack is then double packed in order to reduce all the risks it may encounter during its transportation.

The reinforced gown packed in foil-paper packaging is required to be accompanied by a technical card to confirm the required parameters.

The double packed reinforced surgical gowns are put in Baymed's standard sized carton which dimensions are: Height = 44 cm; Length = 40 cm and Width = 60 cm.

On the outer packaging there are two self-adhesive labels for documentation purposes including: catalogue number, Product SAP Code, LOT Number, expiry date and manufacturer's name.

2.8. OPTION AVAILABLE

- Custom dimensions
- Ultrasonic Welding
- Amount of Towels
- Wrap

3. SHELL LIFE

The reinforced surgical gown has a Shell life of 3 years.

4. STERILIZATION PROCESS

The well packed gowns in their respective boxes with their individual identification labels are then sterilized using Ethylene oxide gas (EO Sterilisation). Each sterilization process is strictly controlled and appropriate data (temperature, duration, humidity and gas concentration) are collected by experimented personnel. All these data are then saved to our SAP system for traceability. These data can be provided for each sterile product by the bias of their Lot number, reference number and product code.

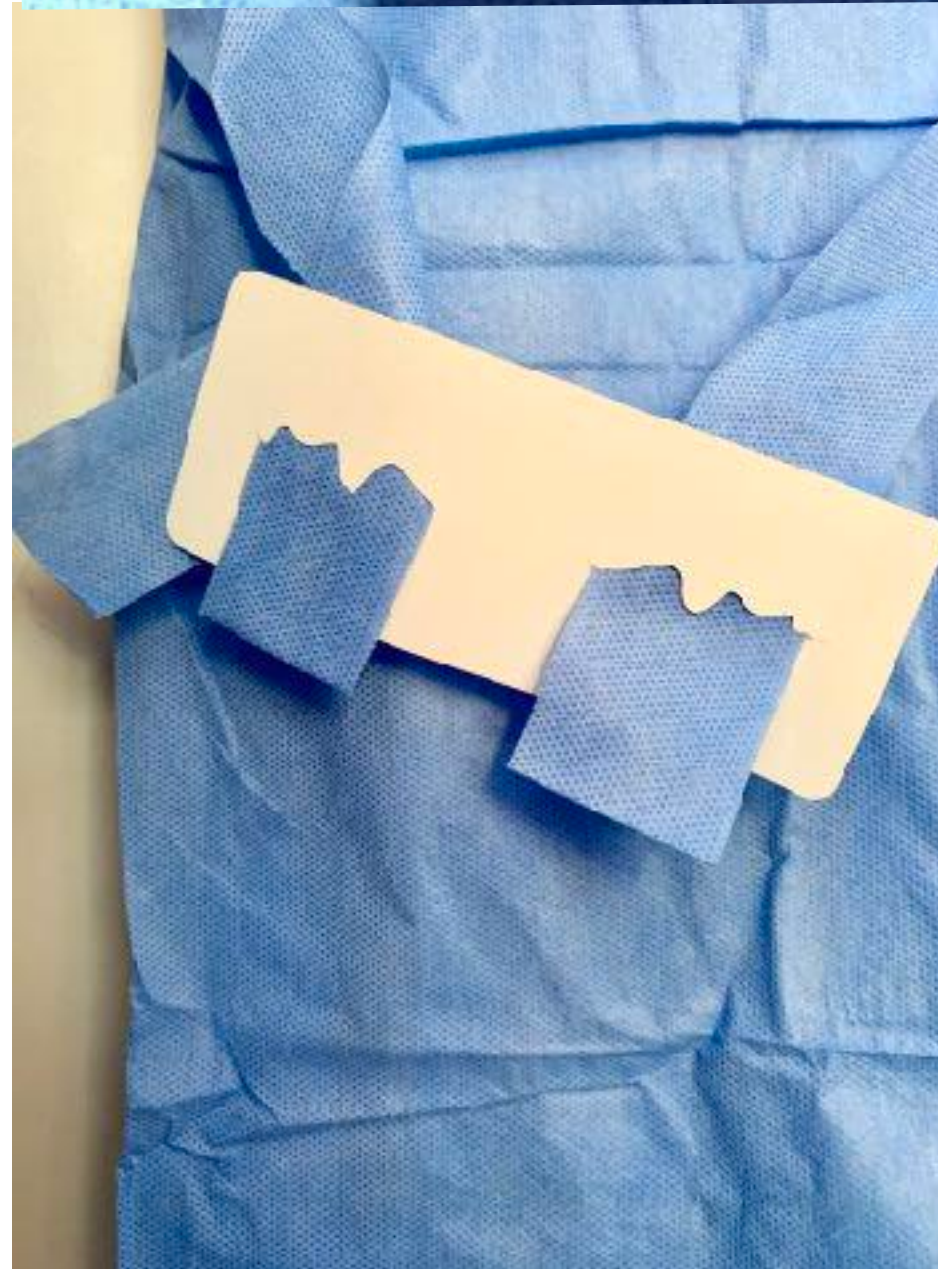
5. STORAGE CONDITION

Store under ambient temperature and dry condition.

6. REGULATORY

Class IS Rule 1 MDD 93/42/ECC Annex / IX MDD 93/42/ECC
ISO 9001
ISO 13485:2016
OEKO-TEX STANDARD 100
EN 13795-1





- STERILE PACKAGING
- EXTRA SURGICAL PANEL FABRIC SQUARE
- 2 STERILE TOWELS
- BACK CARDBOARD FOR BELTS



WHY ARE SCIENCE OF APPAREL GOWNS MADE IN POLYPROPYLENE ?

✚ INCREASED PROTECTION FROM FLUID PENETRATION

✚ ANTI-VIRAL, ANTI-BACTERIAL, ANTI-FUNGAL

✚ ANTI-STATIC, LINT-FREE, DUST-FREE

✚ AIR PERMEABLE, ANTI-ALLERGENIC

✚ LIGHTWEIGHT FOR ADDED COMFORT

✚ SOFT TOUCH, OPAQUE, METAL FREE

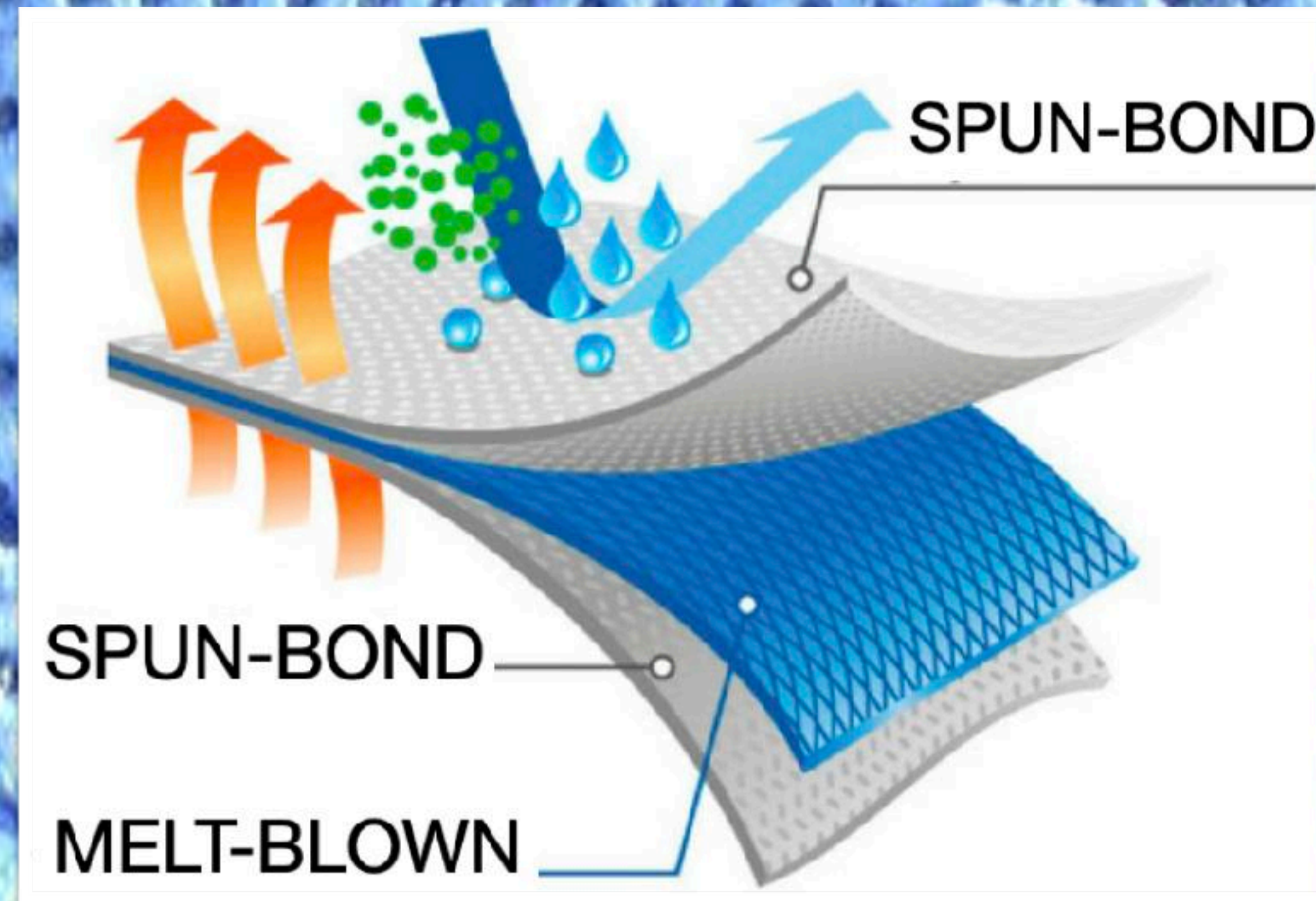
✚ STRONG, STAIN RESISTANT

✚ NONWOVEN POLYPROPYLENE FIBRE

Gowns are critical elements of the PPE since they are the second-most-used piece of PPE, following gloves.

Polypropylene, also known as Olefin, is a synthetic thermoplastic polymer derived from oil and natural gas production. Up until the late 1950's, the gas propylene was a waste product of oil and natural gas facilities. It was not until Italian scientist, Giulio Natta, polymerized the gas propylene and made a commercially feasible plastic polypropylene. Polypropylene is then extruded through a shower head like device known as a spinneret. The spinneret creates the shape and length of threads. After the threads cool, they are spun together in various color and size combinations to make yarns. The polypropylene yarns are then woven into fabric.





IMPERMEABLE TO MICROBIAL MIGRATION

SMS NON WOVEN FABRIC (MADE BY SPUN-BOND + MELT-BLOWN+ SPUN-BOND)

SMMS NON WOVEN FABRIC (MADE BY SPUN-BOND + MELT-BLOWN + MELT-BLOWN + SPUN-BOND)

SANDWICH STRUCTURE SPUN-BOND FOR STRENGTH, MELT-BLOWN FOR REPELLENCY

*MELT-BLOWN IS A UNIQUE POLYPROPYLENE MATERIAL THAT RETAINS HARMFUL MICROBES AND BACTERIA WITHOUT LETTING THEM OUT.
IT IS VERY DELICATE AND FRAGILE, SO IT REQUIRES STRONGER MATERIAL ON BOTH SIDES.



SCIENCE of apparel

SCIENCE OF APPAREL, in the Ethical Textiles business since 2012, has shifted its focus to be fully responsive to the needs sadly brought about by the COVID-19 pandemic. The company is now dedicated to equipping organizations with the highest quality personal protective equipment (PPE) at the lowest possible price. SA has established a reliable and high-caliber supply chain for all its products, both within the US and internationally.

Prior to the pandemic, SA was focused on designing and production-sourcing for Fortune 500 customers. Its mission is to leverage art and science in textiles to contribute positively to the planet and its inhabitants. The threat we now face has driven us to pivot into providing protective gear, while still adhering to our guiding corporate principles.

For example, SA's Level 2-4 gowns are produced in our own US-government vetted and fully compliant Turkish factories, on state-of-the-art German machinery, rigorously quality controlled. The fabric is hydrophobic, non-woven polypropylene. It consists of 4 layers: spun-bond, melt-blown, melt-blown, spun-bond. Coupled with our ultrasonic seam-welding, our no-seam design on higher level gowns, this is truly a leakproof construction. Thus, our gowns provide maximum protection from fluid and viral penetration. We believe that health workers deserve this protection.

SA's CEO, Roberto Crivello, was global creative director of the Dupont textiles group for 7 years early in this millennium. In that position, he developed extensive expertise in non-woven medical polyethylene fabrics and other textiles relevant to the design and manufacture of the most protective PPE.

SA is currently supplying a full range of PPE products to federal and state governments, as well as hospitals and other organizations. All SA products have the relevant certifications and are rigorously quality controlled. We view our customers as partners, who deserve the highest level of support and satisfaction.



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