

Cleanroom Annex 1

New annex 1 in practice
Gowning implications



Changing Room

Avoid outdoor clothing in changing rooms

Contamination Control

Gowns must be suitable to prevent the shredding of particles

In cold and warm conditions

Gowning Method

Garments should be packed and folded to allow operators to gown WITHOUT contacting the outer surface

Safety & comfort

Recommended monitoring of the gown on hands, arms, chest and forehead

Target 0 Colony Forming Units

Technical specifications

Undergarments

Kangaroo design

Folded garments
AlsiSandwas Fabric
Bi – Ome antibacterial

Over shoes

Hypalon design

Reusable over shoes
AlsiSandwash Fabric
Bi – Ome antibacterial

Coverall

Top Down design

Fast & Safe gowning
AlsiStrong Fabric
Cyclop compatible

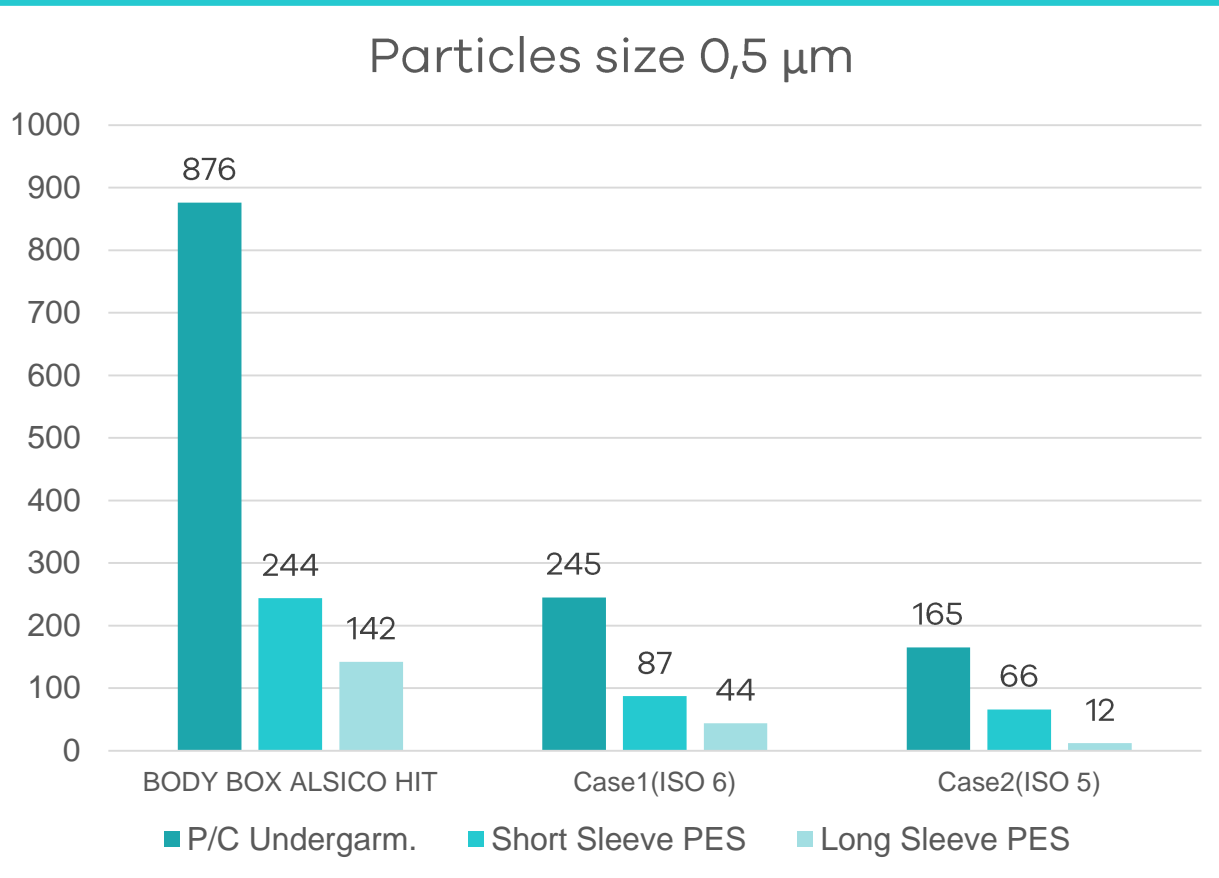
Resistant to Autoclave 120°C - 20 min

Undergarments

Kangaroo



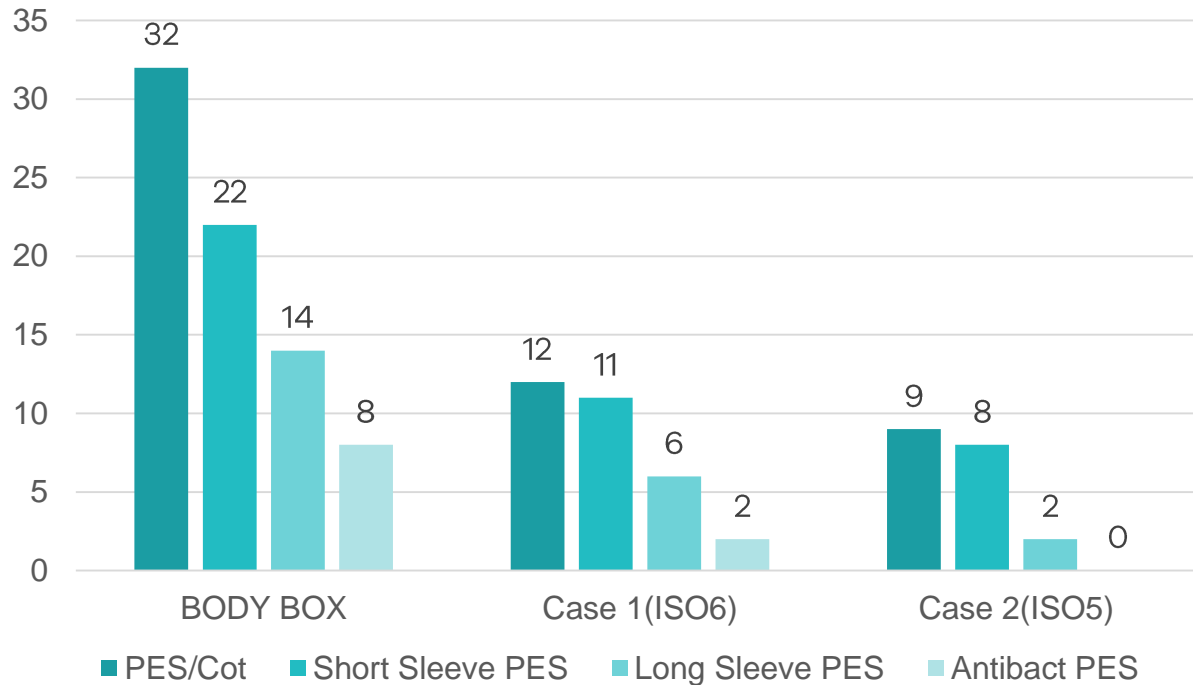
Aseptic Gowning : Kangaroo Undergarments + Alaska 2.0 Upper garment : Particles 0,5 µm



- Strong decrease of particle contamination compared to polycotton garments.
- Long sleeve undergarments with knitted collar = 50% reduction of particles compared to short sleeve undergarments.
- By using lightweight antistatic Micropolyester fabric this is the highest comfort zone for undergarments.
- Kangaroo undergarments = 100 % Plastic free solution = in accordance with upcoming Green Deal in Europe
- Garments are 100 % recyclable

Aseptic Gowning : Kangaroo Undergarments + Standard Cleanroom Overall: CFU Level

Average CFU after 2 h (Chest-Arms-Head)



- 50% reduction of CFU on PES long sleeve undergarments compared to Pes/Cot
- 0 CFU on arms by using Antibacterial under garments
- Due to wicking effect in combination with quick drying of micropolyester fabric the risk on growth of bacteria is strongly reduced.



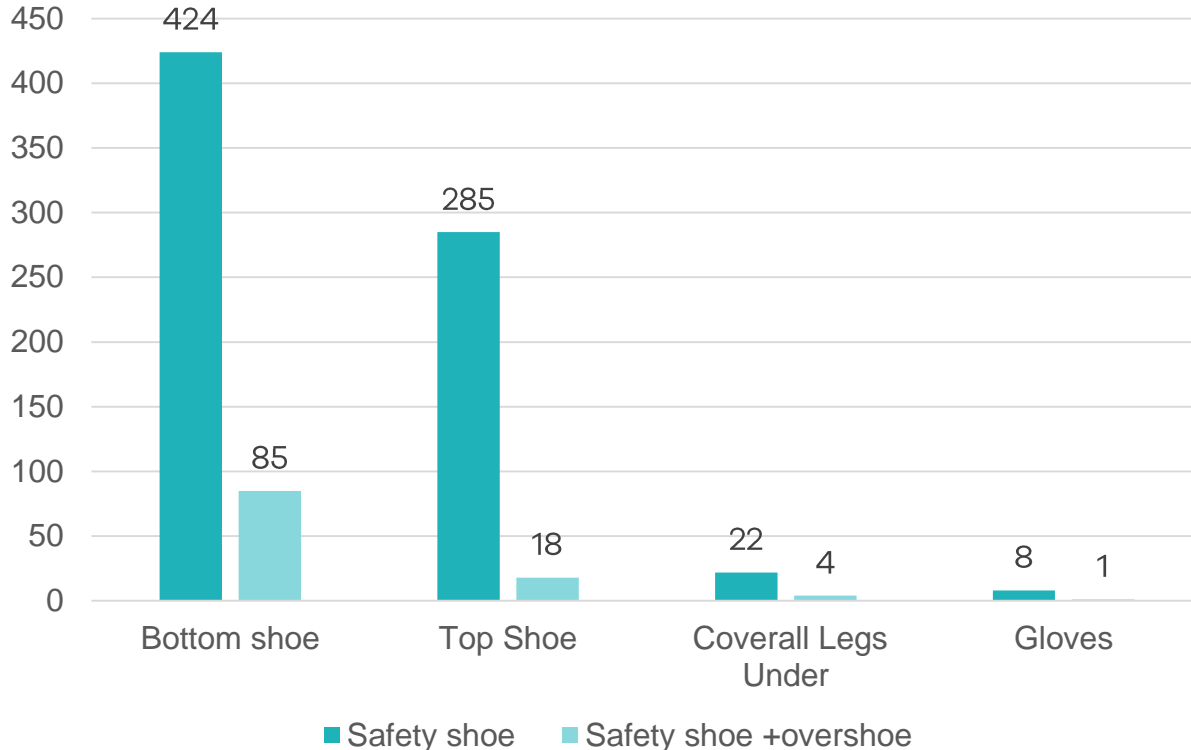
Footwear

Reusable Grade C & D Overshoes

Footwear

Reusable Grade C & D Overshoes

Measured CFU in Gowning Area

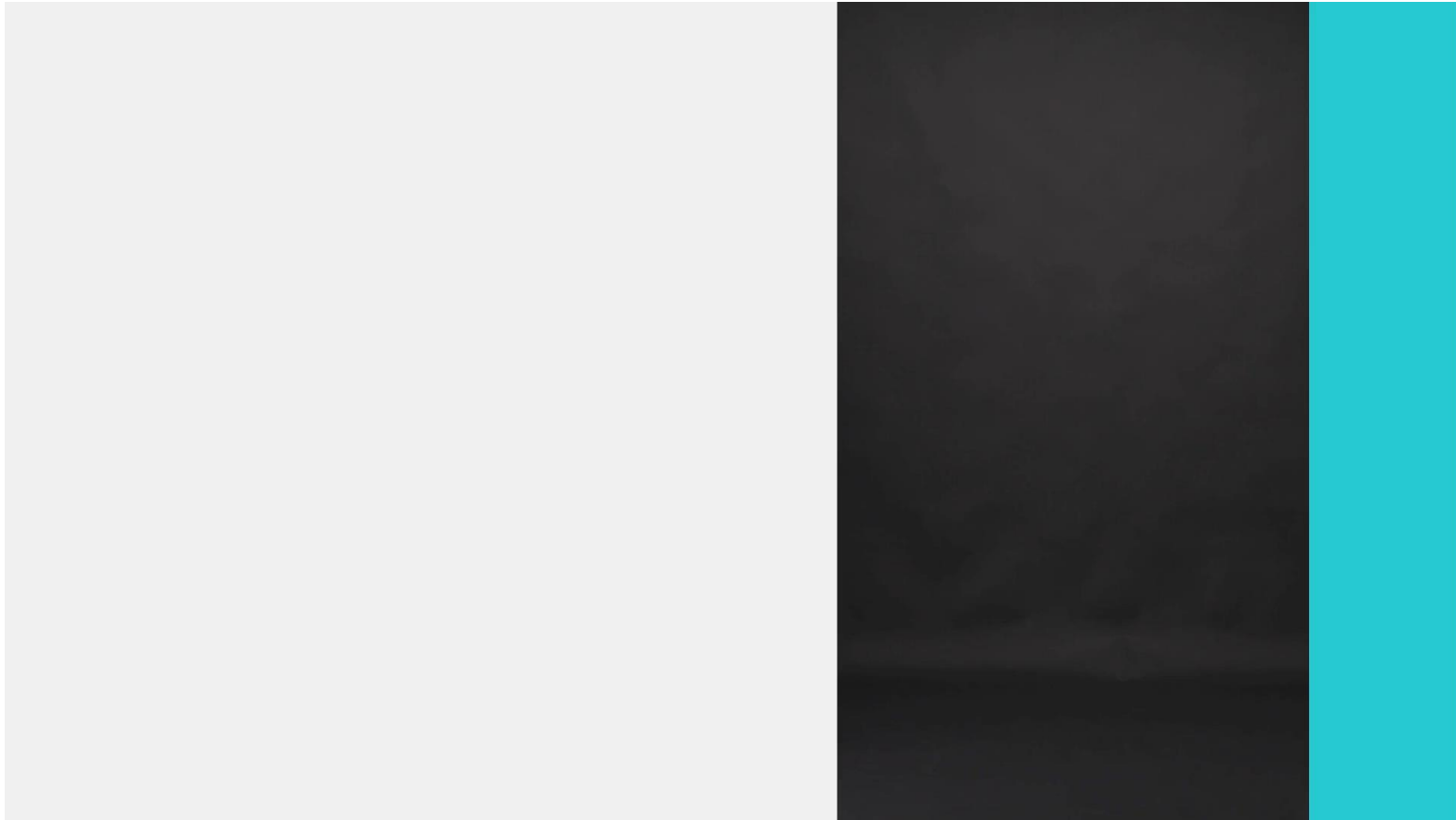


Reduction of Contamination Risk

- Comfortable and safe (anti-slippage)
- Long Lifetime = min. 100 x uses (Washing-drying-wearing)
- Easy to clean = flat surface
- Low ecological footprint : 1 pair of reusable overshoes = 100 pairs of single use overshoes
- Reusable and recyclable = Green Deal

ASEPTIC Upper Garment : ALASKA 2.0

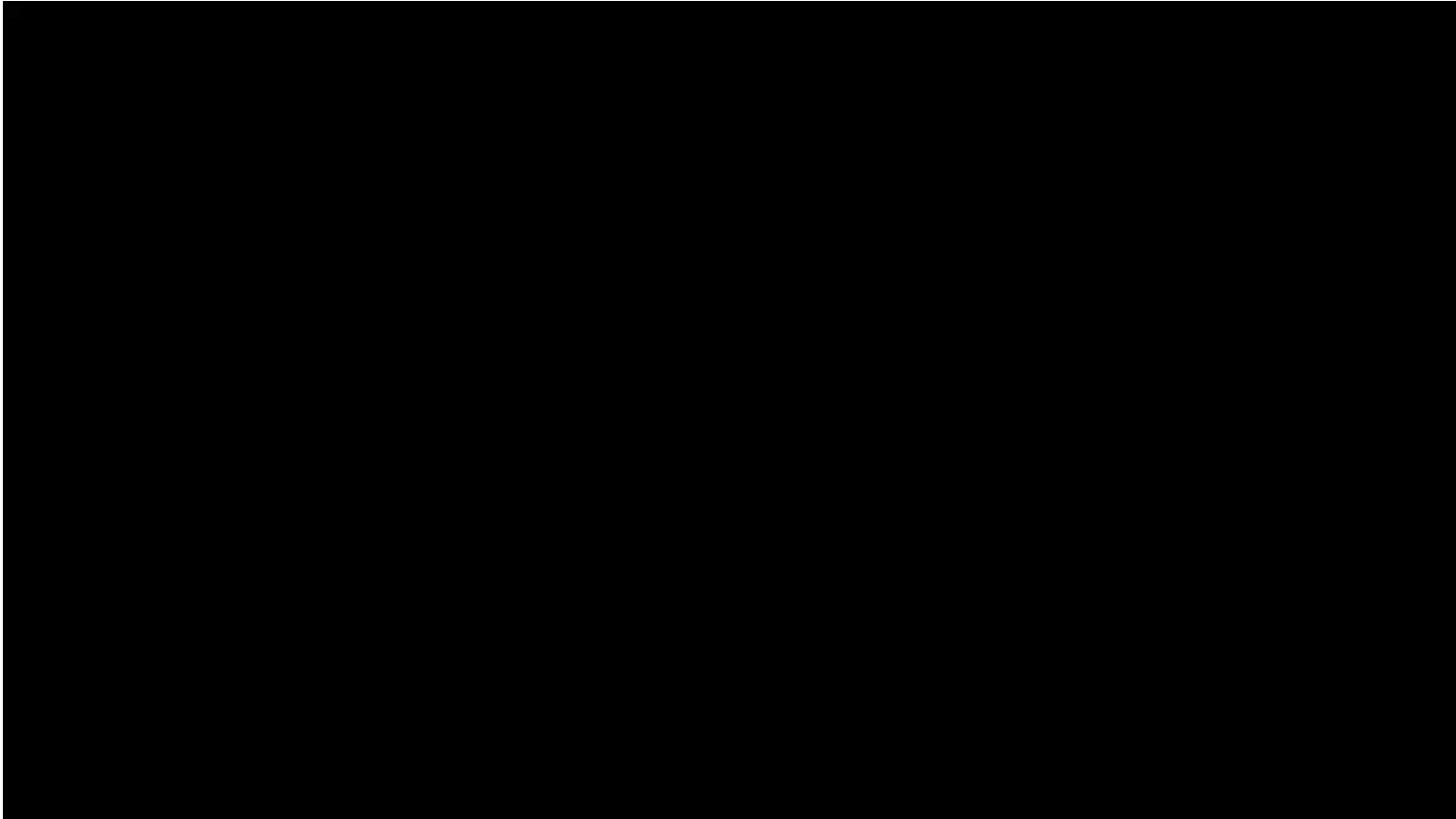
Major Benefits compared to standard Coveralls



Gowning Time 30 Seconds



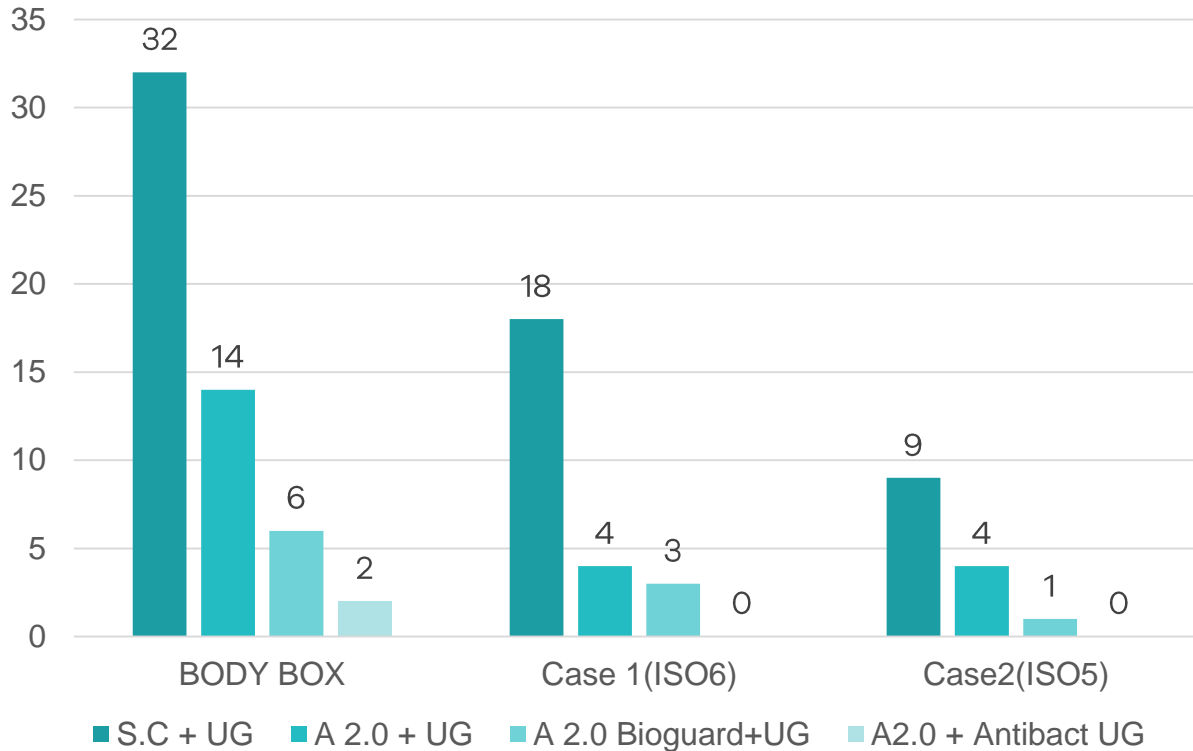
Gowning Time In Practice



Top Down Coverall

CFU Reduction compared to standard coverall

Measured CFU After 1 h in operation

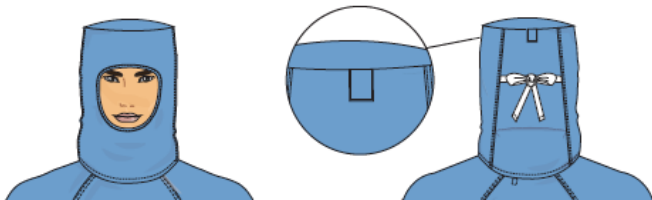


Reduction of Contamination Risk

- Using the proper garments combination can reduce the number of CFU measured by more than 50%
- Adding an antibacterial treatment to the coverall will divide the number of CFU by 5 or 6
- Adding the antibacterial treatment to both the upper and undergarment will provide the better protection with a CFU measured between 2 and 0

Top Down Coverall

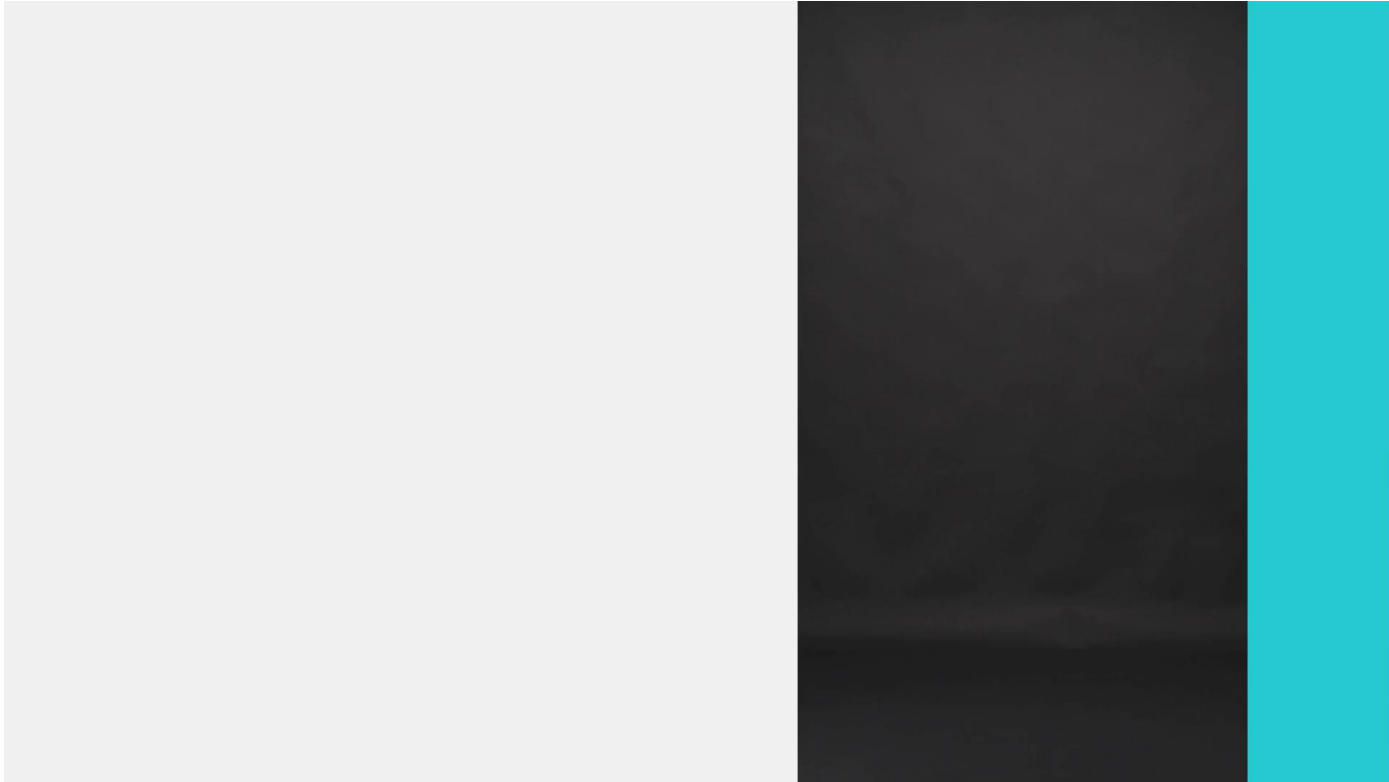
Design Highlights



Reduction of Contamination Risk

- Ankle to ankle zipper with overfolded bottom legs offering a lower risks of contact with the shoes or floor while gowning
- Cyclops and/or goggles compatible
- Ungowning strap at the back of the hood with different options for fitting (straps, snaps, elastics)
- Foot strap for tension on zipper for an easy gowning

Full Aseptic Gowning



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