



# Isofield Horizon ESD Overboots

Anti-Static ESD Cleanroom Overboots  
with Conductive ribbon

Last updated **02 Dec 2025**

PRODUCT CODE

**REF 70820**  
SIZE UNIVERSAL



## PRODUCT INFO

Non-marking conductive tape provides excellent dissipative properties  
Conductivity of  $10^5$  -  $10^6$  ohms  
Slip-resistant Soles  
Non-sterile Cleanroom overboots  
Low levels of particle shedding  
Aseptically folded for added cleanliness

## CLEANROOM COMPATIBILITY

ISO Class 5 cleanroom  
Class 100 cleanroom

## QUALITY ASSURANCE

Manufactured in a facility operating under ISO 9001:2015 quality management system  
Processed in a NEBB certified ISO Class 5 cleanroom

## APPLICATIONS

Medical device production and assembly  
Cleanroom cleaning & preparation  
Semiconductor & wafer fabrication  
Electric vehicle (EV) & battery assembly  
Environments requiring general static control

## STORAGE & SHELF LIFE

Store in a dry, cool place ( $<40^{\circ}\text{C}$ ) away from direct sunlight  
Do not expose open cartons to prolonged direct fluorescent light  
Five (5) years from date of manufacture

## PACKAGING

10 pairs per double bag  
8 sealed outer cleanroom bags  
80 pairs per carton (160 pieces)

## MATERIAL PERFORMANCE PARAMETERS

DESCRIPTION	UNITS	METHOD	SPECIFICATION	TYPICAL
Basic Weight	g/m <sup>2</sup>	ISO 9073-1-1989	±2	60
Machine Direction Strength	N/5cm		≥50	69
Machine Direction Elongation	%		≥100	109
Cross Direction Strength	N/5cm		≥25	43
Cross Direction Elongation	%		≥100	111
Hydrostatic Head	mmH <sub>2</sub> O	ISO 811-1981	≥100	213
Air Permeability	l/m <sup>2</sup> /S	GB/T5453	≥	2000
Surface Resistivity	Ω	ISO 9073-1-1989	/	10 <sup>7</sup>
Slip Resistance	Coefficient of Friction (COF)	ASTM D1894	≥0.5	0.6 (Static) 0.5 (Dynamic)

## ADDITIONAL INFO

Tear strength	1.6kg (min)
Surface resistance	10 <sup>5</sup> -10 <sup>6</sup> ohms

## HELMKE DRUM TEST RESULT

PARTICLE SIZE	CUMULATIVE RELEASE RATE (COUNTS/MIN)	SPECIFICATION	TYPICAL
≥ 0.3µm	547	less than 2000	<400
≥ 0.5µm	222	less than 1200	<1000



## ASTM F739-20 TEST METHOD

### CHEMOTHERAPY DRUGS TESTED

MEAN BREAKTHROUGH TIME (MBT), MINUTES BREAKTHROUGH OF THE TEST CHEMICAL IS DEEMED TO HAVE OCCURRED WHEN THE PERMEATION RATE HAS REACHED 0.11 µG/CM<sup>2</sup>/MIN\*

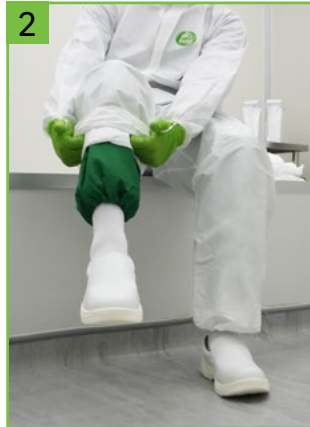
Carmustine	30 mins
Cisplatin	> 480 mins
Cyclophosphamide	> 480 mins
Doxorubicin HCl	> 480 mins
Etoposide	> 480 mins
Fluorouracil	> 480 mins
Methotrexate	> 480 mins
Paclitaxel	> 480 mins
Thiotepa	60 mins

\*Results achieved under controlled laboratory conditions, by accredited ISO 17025 third party testing laboratory

## DONNING INSTRUCTIONS



1 Prepare to Cuff leg by grasping elasticated opening



2 Carefully fold coverall leg upwards to position approx. 10cm from knee



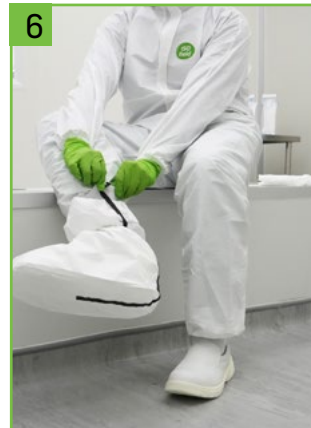
3 Take Horizon ESD Overboot and unfold



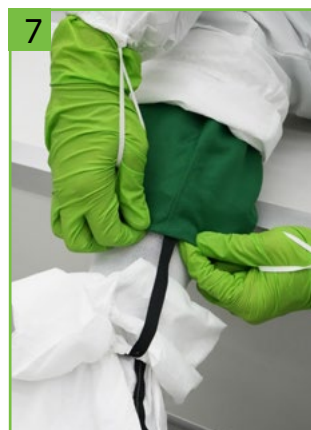
4 Don Overboot carefully, leaving top half of boot un-cuffed



5 Take ESD Ribbon from inside the Overboot...



6 ... and tuck firmly into Cleanroom sock



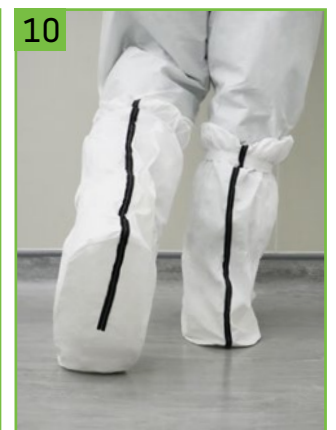
7 Ensure that there is direct contact between ESD ribbon and skin



8 Carefully uncuff coverall to ankle position



9 Carefully uncuff Overboot to knee height



## LOADING

	EURO-PALLET	STANDARD PALLET
Pallet size	W80 L120cm	W100 L120cm
Gross weight	7.0kg	7.0kg
Carton size	W43 L28 H31cm	W43 L28 H31cm
Nett weight	6.0kg	6.0kg
Air freight pallet	Max height: 139cm Layers: 4 Cartons: 24	Max height: 139cm Layers: 4 Cartons: 32
Sea freight pallet	Max height: 170cm Layers: 5 Cartons: 30	Max height: 170cm Layers: 5 Cartons: 40

## DOCUMENTATION



CERTIFICATE OF CONFORMANCE (COC)  
CERTIFICATE OF ANALYSIS (COA)

Please [email us](#)



FACTORY RELATED CERTIFICATIONS  
To request ISO9001 Certificate,  
please [email us](#)



Made in **Malaysia**  
HS Code: 6210109000

*This data sheet and any other claims made by or on behalf of Isofield shall not be taken as a warranty of merchantability or as a statement that any Isofield products are suitable for a specific purpose. Isofield shall not be held responsible for the end user's choice of product for a particular application.*

### EUROPE

ISOFIELD (IRELAND) LTD  
70 Northumberland Road, Ballsbridge Dublin 4,  
Ireland T +44 (0) 1638 6762 39

### ASIA

ISOFIELD SDN BHD  
6 Jalan Gudang 16/9, Seksyen 16, 40200, Shah Alam,  
Selangor, Malaysia, T +603 5512 1709

### CONTACT

[www.isofield.com](http://www.isofield.com)  
[info@isofield.com](mailto:info@isofield.com)