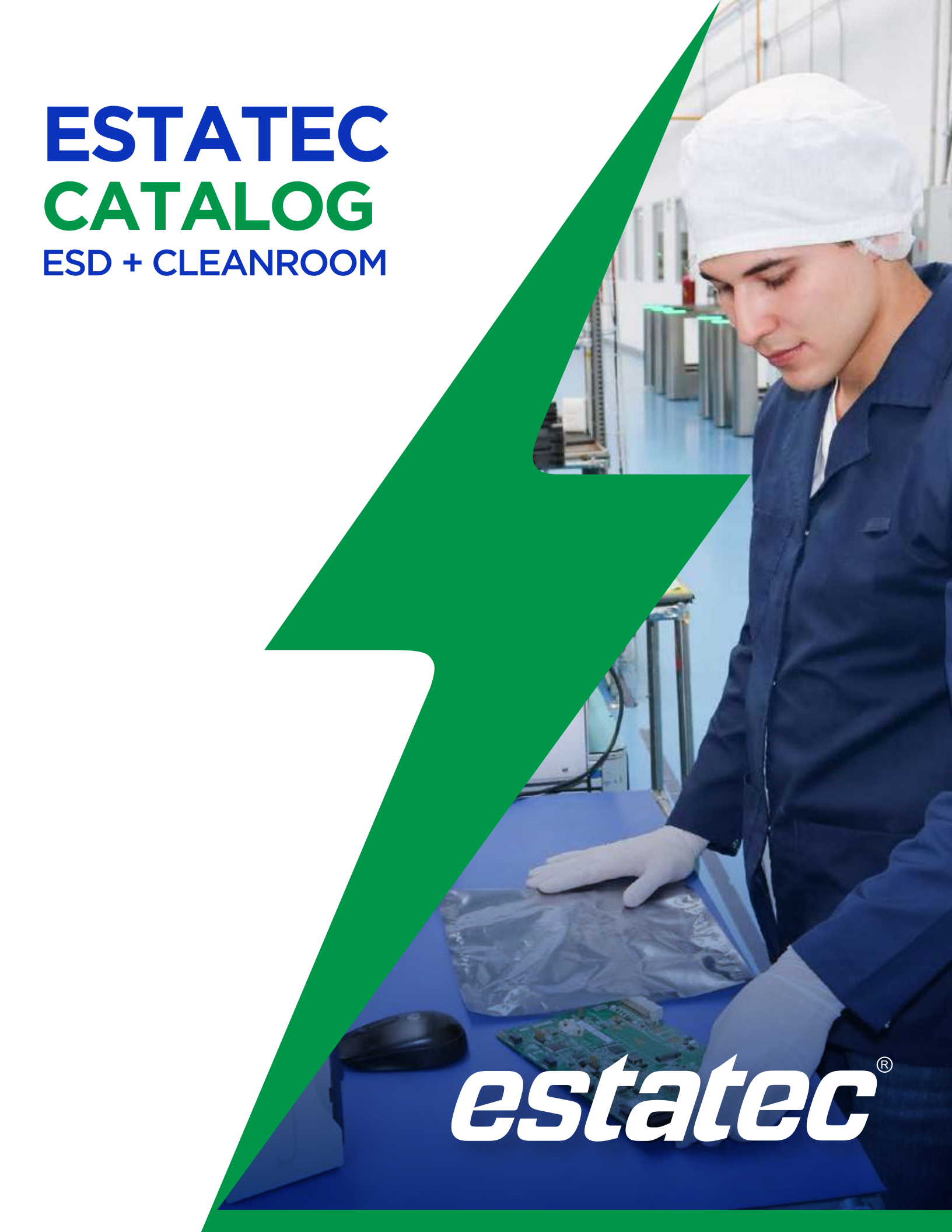


ESTATEC

CATALOG

ESD + CLEANROOM

A photograph of a male technician wearing a white hairnet and white gloves, working on a green circuit board on a blue surface. A black computer mouse is visible on the left. The background shows a cleanroom environment with blue walls and equipment. A large green lightning bolt graphic is overlaid on the left side of the image.

estatec[®]

CONTENTS

ESD 04

Personal Grounding 	05
ESD Apparel	12
Packaging	18
Bags	21
Mats	26
Equipment	29
Chairs & Stools	34

Cleanroom 37

Cleanroom Coveralls	38
Lab Coats	39
Cleanroom Hoods and Safety Shoes	40
Innerwear	41

***DOING GLOBAL BUSINESS
WITH A LOCAL FOCUS***



Personal Grounding

Products for optimal personal grounding:
Footwear, heel grounders and Wrist Straps



 [Heel Grounders](#)

[Sole Grounders](#)

[Toe Grounders](#)

[Single Wire
Wrist Straps](#)

[Dual Wire
Wrist Straps](#)

[Accessories](#)

[Estashoes](#)

HEEL GROUNDERS

Our heel grounders, for their cost-benefit, are one of the main personal grounding systems for grounded surfaces. The conductive ribbon connects the person to the non-marking rubber, it has an encapsulated resistor for greater durability. The heel grounder fastening system does not damage the shoe or sock; it has excellent abrasion resistance and tensile strength.

Standard royal blue heel grounder

Standard royal blue model for personal grounding. Also available in 2 Mohms.

EHL-1001

MODEL	Standard
RESISTANCE	1 Mohms
RIBBON	2.5 cm wide
UM	EA



SOLE GROUNDERS

The optimal way for personal grounding via ESD flooring, with excellent cost-benefit. Unlike heel grounders, sole grounders are in constant contact with the ground, never losing connectivity and covering 100% of the footwear sole. The sole fastening system does not damage the footwear; it has excellent abrasion resistance and tensile strength. They come in three sizes to fit different shoe sizes.

Plus royal blue sole grounder

Unlike heel or toe grounders, sole grounders cover the entire sole of the shoe

EHL-1022 / EHL-1023 / EHL-1024

Small

Medium

Large

MODEL	Plus
RESISTANCE	2 Mohms
RIBBON	Reinforced
UM	EA



TOE GROUNDERS

Optimal for shoes with heels, they fit the front of the shoe. Their properties are the same as those of the heel and sole grounders. Unlike these, if the toe is lifted, ground connection is interrupted. They leave no mark on the floor and have a traceability code (CURE). Toe grounders do not damage the footwear and have excellent abrasion resistance and tensile strength.

Plus royal blue toe grounder

Unlike sole and heel grounders, toe grounders are used in heeled footwear where the heel is exposed.

EHL-1051

MODEL	Standard
RESISTANCE	1 Mohms
RIBBON	2.5 cm wide
UM	EA



SINGLE WIRE WRIST STRAPS

The Wrist Strap is the optimal and most cost-effective personal grounding system, as it provides a direct connection to ground when the operator is seated. It is composed of a polyester elastic band with conductive fibers, an adjustable plastic buckle, and a simple cable for grounding. The standard Wrist Strap works with continuous oneway monitors.

Wrist Strap with grounding cord and alligator clip

EWR-1012 / EWR-1016

MODEL	Standard with alligator clip
MATERIAL	Polyester elastic band with carbon fiber
RESISTANCE	1 Mohms
CABLE	Single 6 ft / 12 ft
PLUG	Banana plug
UM	EA

Standard banana plug model with alligator clip for direct connection to grounded cables.



See EMN_PX1688 monitor on page 31

DUAL WIRE WRIST STRAPS

Unlike the single cable Wrist Strap, the dual bracelet allows grounding via continuous resistance monitoring equipment. This equipment monitors at all times if the operator is grounded; would the wire fail, or if the Wrist Strap connection with the skin is poor, the equipment will trigger an alarm (see our monitoring equipment on page 36).

Dual Wire ergonomic Wrist Strap with 1 stereo connector

Swivel connector for staff comfort (keeps cable out of the way).

EWR-1022

MODEL	Dual, 1 connector
MATERIAL	Nylon elastic band with carbon fiber
RESISTANCE	1 Mohms
CABLE	Dual 10 ft
PLUG	Stereo connector
UM	EA



Ergonomic Wrist Strap with 1 double snap connector

Pull-resistant connector, prevents the Wrist Strap from disconnecting easily.

EWR-1023

MODEL	Dual, 1 connector
MATERIAL	Nylon elastic band with carbon fiber
RESISTANCE	1 Mohms
CABLE	Dual 6 ft
PLUG	Stereo connector
UM	EA



ACCESSORIES

Standard Wrist Strap

EWR-2011

MODEL	Standard
MATERIAL	Polyester elastic band with carbon fiber
UM	EA



Compatible with EWR-1012 / EWR-1016

Ergonomic Wrist Strap with 1 double snap connector

EWR-2004

MODEL	Standard, dual with double snap connector
MATERIAL	Polyester elastic band with silver fiber
UM	EA



Works with EWR-1023 Wrist Straps and grounding cords

Dual Wrist Strap with 1 stereo connector

EWR-2025

MODEL	Standard
MATERIAL	Nylon elastic band with carbon fiber
UM	EA



Works with EWR-1022 Wrist Straps and grounding cords

Grounding Jack for 2 banana plug Wrist Straps

EWR-9012



Dual cable with 1 snap connector

EWR-8207 6 ft / EWR-8212 12 ft

MODEL	Dual, snap connector	CABLE	6 ft extended / 12 ft extended
PLUG	Stereo connector	UM	EA



Spare dual 6 ft / 12 ft cable for dual Wrist Strap EWR-1023

Dual cable with stereo connector

EWR-8210 / EWR-8215

10 ft 20 ft

MODEL	Dual, 1 stereo connector	CABLE	10 ft extended / 20 ft extended
PLUG	Stereo connector	UM	EA



Spare dual 10 ft / 20 ft cable for dual Wrist Strap EWR-1022

Reinforced banana cable

EWR-8006 / EWR-8013

6 ft 12 ft

MODEL	Reinforced banana plug	CABLE	6 ft extended / 12 ft extended
PLUG	Banana plug	UM	EA



Spare dual 6 ft / 12 ft cable for Standard Wrist Strap.
Compatible with EWR-1016 / EWR-1012

ESTASHOES

Footwear used to ground staff comfortably on conductive or dissipative surfaces. Lightweight and ergonomic, does not harbor bacteria or fungi; water-repellent. The sole guarantees permanent ground contact. Can be used in cleanrooms. Estashoes do not lose their ESD properties over time.



ESD

Estashoe 4.0

Dissipative shoe.
Lightweight EVA ESD footwear with
ergonomic insole and non-skid rubber sole.



Lightweight



Washable



Non-skid



Comfortable



Ergonomic



COLOR

WHITE

BLACK

SIZE

US 5 TO 14 - MX 23 TO 31 *Half-sizes not available

A Reliable Grounding System

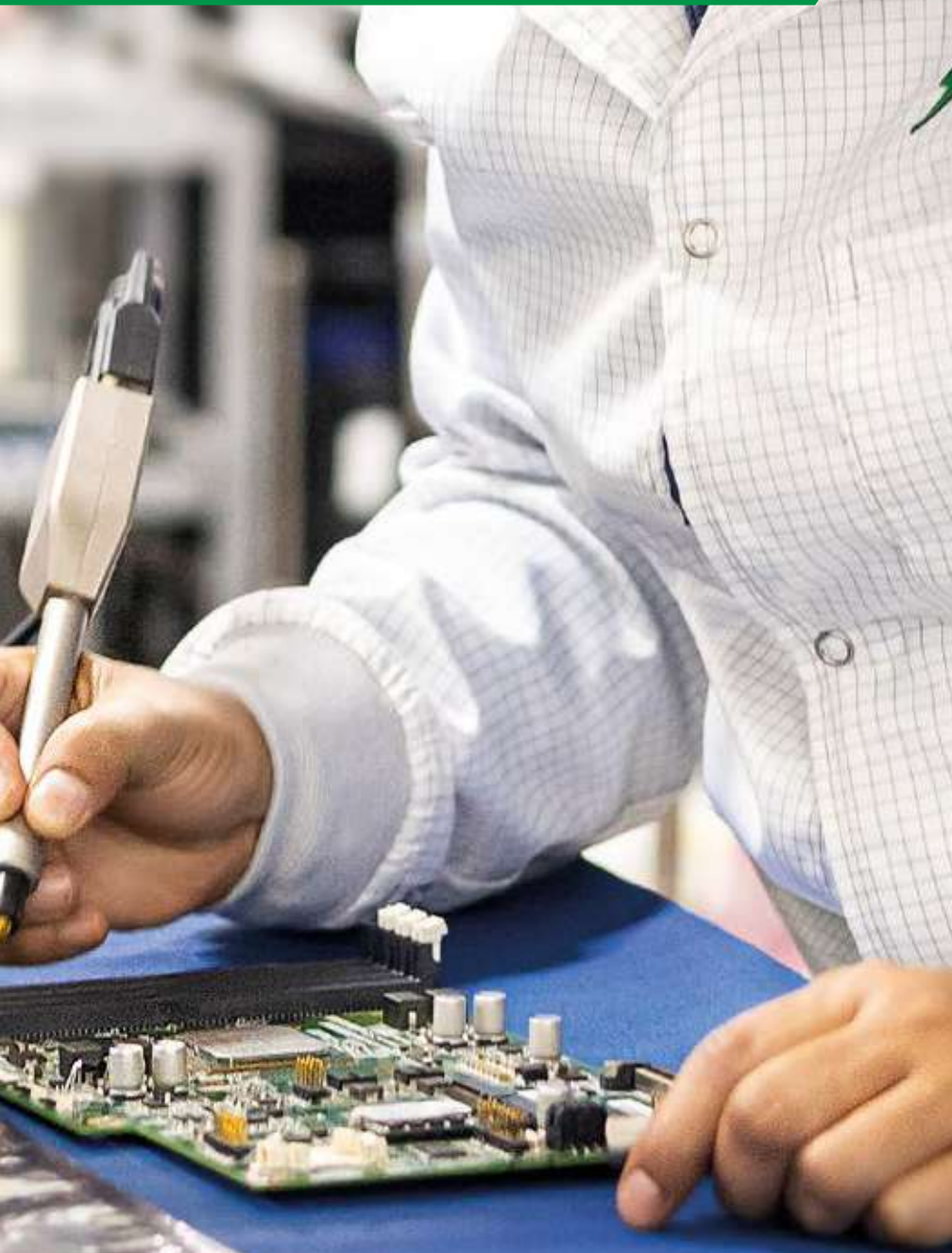


Uses / Applications

ESD assembly areas and electronic service centers; controlled rooms; automotive and aerospace industry.

Apparel

Clothing that covers torso and arms to eliminate the induction of electrostatic charges to components on a workbench. It also isolates electrostatic fields generated by the friction of the human body against the fabric of ordinary clothing.



 [Frocks & Smocks](#)

[Coveralls](#)

[Apparel](#)

[Table of Available
Estatec Fabrics](#)

[Characteristics
of Estatec
Garments](#)

[We Are
Manufacturers](#)

FROCKS & SMOCKS

ESD frocks & smocks eliminate the induction of electrostatic charges to sensitive components in anEPA (Electrostatic Protected Area). They isolate the electrostatic fields generated by the friction of the human body with the fabric of ordinary clothing.



Lapel collar



mao collar



Button-covering flap



Sleeve pocket

Dissipative cuffs



Elastic cuffs



Metallic snap cuff



Standard cut (waist length)

Thigh length, 8cm longer than Standard cut

Knee length, 20cm longer than Standard cut



ESM-XX9X

Smock with grounding system



Meets standards: ANSI/ESD S20.20 ANSI/ESD STM2.1

COVERALLS

Head-to-toe body covering garment for greater protection in controlled rooms and some cleanroom categories. Its use with CleanStat AD fabric is recommended for cleanrooms, as it prevents the release of particles of ordinary clothing and hair to the outside. Elastic cuffs and ankles, elastic waistband at the back for better fit.



APPAREL

Clothing accessories that complement the protection against electrostatic discharges. They cover head, torso, legs and feet (separately) in order to dissipate and isolate electrostatic fields generated by the friction of hair, clothing and footwear when walking.



Standard Cut Cap
TecStat PA /
CleanStat AD
EGR-X1A0



Standard Cut Cap
TecStat PA /
CleanStat AD
EGR-X1I0



Standard Cut Bouffant Cap
TecStat PA /
CleanStat AD
EGR-X1F0



ESD Visor Cap
TecStat PA /
CleanStat AD
EGR-X1I0

ForTec Flexible Sole Shoecovers
CleanStat AD / CleanStat HD
/Taffeta 150 + ForTec
EGR-B6YX_EST006



ESD Sport Hat
TecStat PA /
CleanStat AD
EGR-X1D0

TABLE OF AVAILABLE ESTATEC FABRICS

FABRIC	COMPOSITION	SIZES	COLORS	FUNCTIONALITY
TecStat PA	• 66% Polyester • 32% Cotton • 2% Carbon fiber	• Frocks, smocks and coveralls 2XS-7XL • One size	Navy, royal blue, sky blue, red, white, beige, black, green, yellow, orange, gray, pink, scarlet and oxford. M A C R B E N V Y O G P S F	It adapts very well to the weather. It can shed fabric fibers, so it is not recommended for controlled areas. It is the best fabric in terms of mechanical resistance.
NEW FABRIC TecStat LR	• 96% Polyester • 4% Carbon fiber	• Frocks, smocks and coveralls 2XS-7XL • One size	Royal blue. A	Lightweight fabric. Does not shed particles. This type of fabric allows the garment not to be hot in warm environments.
TecStat L1	• 98% Polyester • 2% Carbon fiber	• Frocks, smocks and coveralls 2XS-7XL • One size	Navy, royal blue, sky blue, white and oxford. M A C B F	Lightweight fabric. Does not shed particles. Can be used in controlled rooms. This type of fabric allows the garment not to be hot in warm environments.
CleanStat AD	• 98% Polyester • 2% Carbon fiber	• Frocks, smocks and coveralls 2XS-7XL • One size	Navy, sky blue, white, black, yellow, orange, indigo, oxford, turquoise, green, royal blue and red. M C B N Y O I F T V A R	Due to its fabric composition and ESD materials it is ideal for cleanroom use, as it does not allow particles to pass through it.

CHARACTERISTICS OF ESTATEC GARMENTS



ESD
CERTIFIED



BARCODE
TRACEABILITY
**Optional*



CUSTOMIZED
DESIGNS



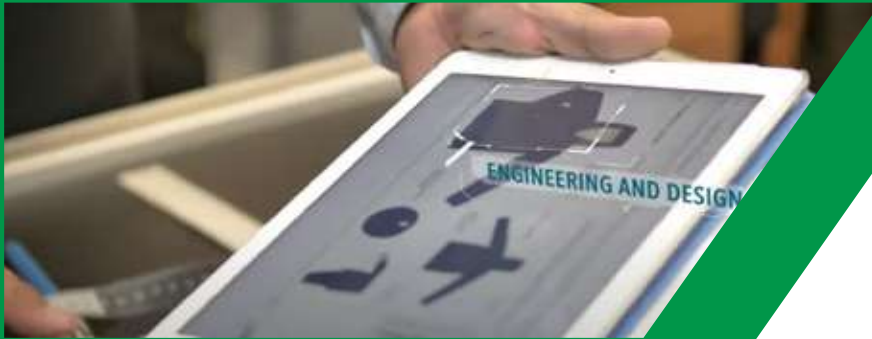
VARIETY IN
SIZES AND
COLORS



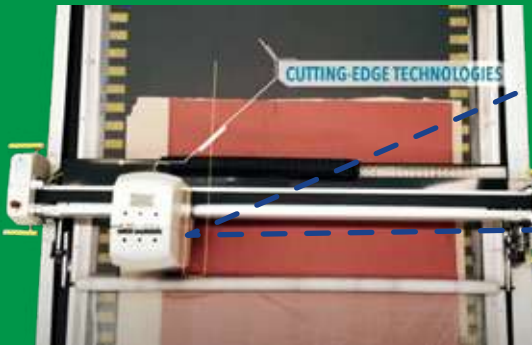
RESISTANT
AND
WASHABLE

WE ARE MANUFACTURERS

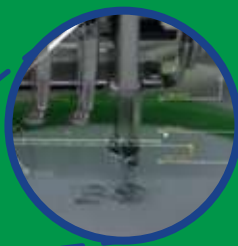
In order to provide better service and higher quality, we have state-of-the-art technology that allows us to reduce delivery times, greater precision in finishing, and consistency in sizes.



ENGINEERING AND DESIGN



CUTTING-EDGE TECHNOLOGIES



CUSTOMIZED APPAREL



PRECISION SEWING



Equipment Packaging

Products manufactured with conductive or dissipative materials, as required, to handle sensitive devices inside and outside protected areas (EPA).



ESD Volumetric
Eva Foam

Polyurethane
Packaging

Equipment
Covers

Infrastructure

ESD VOLUMETRIC EVA FOAM

Ideal for short-term high- and low-volume projects. Never loses its dissipative properties (can be made conductive if required). Custom designs to suit your application.

Advantages of EVA Packaging



Lightweight



Volumetric
dissipative
material



No mold
required



Numerical
control waterjet
machine cutting



Foam with optimum density micro pores for a smooth and soft surface with ideal cushioning to protect electronics.



POLYURETHANE PACKAGING

Leather finish polyurethane, fiberglass and molded plastic ESD products. Used for transportation and storage. They have excellent abrasion and mechanical resistance (transport of sharp-edged parts). Custom designs; excellent for long term projects.

Advantages of PU Packaging



Abrasion and
mechanically
resistant
material



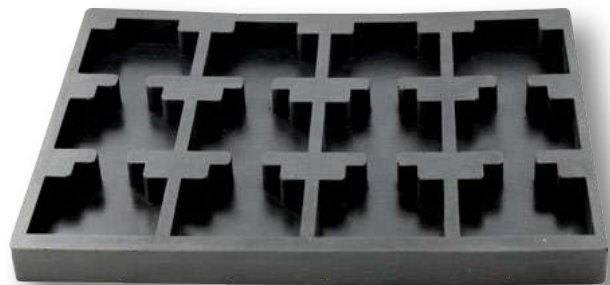
Requires mold
tooling



High durability



ESD volumetric material
that does not lose its
properties over time



EQUIPMENT COVERS

Fabric, canvas, vinyl and plastic ESD covers designed to protect materials and equipment from various environmental conditions, physical contact and electrostatic discharge or induction of electrostatic fields, and contamination.

Advantages of Equipment Covers



Protects
from dust



Options with
visibility to the
inside



Prevents load
induction inside



Different types
of materials



Vinyl Curtain Honeycomb

Flame retardant, RoHS 2
certified

EHS-TLOX_RF



ESD Canvas Heavy duty



INFRASTRUCTURE

Numerical control waterjet cutting machine

- High cutting precision
- Reduced delivery times
- High quality of finishings
- +/- 3mm cutting tolerance

Raw materials

Thanks to our partnerships, our processes range from rubber vulcanization to the manufacture of heel and sole grounders, and mats.



Meets standards:
ANSI/ESD S20.20
ANSI/ESD S541



Bags

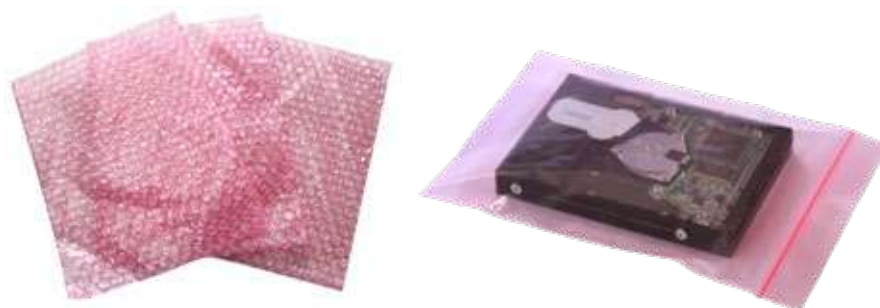
Laminated and extruded, low static emission products, shielded, conductive and with moisture, light, anti-corrosion and oxygen barriers, as required. Excellent for handling ESD sensitive devices inside and outside protected areas (EPA).



Extruded

Metallized

EXTRUDED



Series	Characteristics
EXT-A ● ○ ● ●	Manufactured from low static polyethylene for use in EPA areas. Amine and amide free. Safe alternative to regular static-generating polyethylene bags. A0-Clear A2-Pink A4-Blue
EXT-E ○ ● ●	Manufactured with 100% virgin low density polyethylene for general purpose use. These bags are amine and amide free. E0-Clear E3-Black E6-Non-standard color
EXT-HO ○ ●	Manufactured with high density polyethylene for general purpose use. 100 gauge.
EXT-V ○ ● ● ●	Vapor Corrosion Inhibition (VCI) is a process used to protect metals from corrosion/oxidation. The VCI component is continuously evaporated from a film substrate and deposited on metal surfaces, creating a protective layer that prevents corrosion/oxidation. V4-Blue V5-Yellow V6-Green
EXT-VO ○ ● ● ●	Low static emission. Vapor Corrosion Inhibition (VCI) is a process used to protect metals from corrosion/oxidation. The VCI component is continuously evaporated from a film substrate and deposited on metal surfaces, creating a protective layer that prevents corrosion/oxidation.
EXT-Z ○ ● ● ●	The nanomaster component increases the moisture barrier preventing corrosion/oxidation. We recommend this product only for flat or zipper bags, and in gauge greater than or equal to 200. Z4-Blue Z5-Yellow Z6-Green
EXT-ZO ○ ● ● ●	Low static emission. Corrosion inhibition by increasing the moisture barrier is a process used to protect materials from corrosion/oxidation. The nanomaster component increases the moisture barrier preventing corrosion/oxidation. We recommend this product only for flat or zipper bags, and in gauge greater than or equal to 200.
● ANTI-ABRASIVE ● PUNCTURE RESISTANCE ● CUSHIONING (COUSHING) ● MOISTURE BARRIER ● LEAD-FREE ○ TRANSLUCENT ● LIGHT BARRIER ● OXYGEN BARRIER ● LOW STATIC EMISSION	

These bags can be manufactured in different gauges and thicknesses.
Ask your Account Executive for guidance for your specific application.

Styles



**HEAT SEALED
BOTTOM**



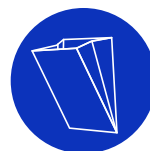
**HEAT SEALED
SIDE FOLDED
BOTTOM**



**3 HEAT SEALS
(HAND MADE)**



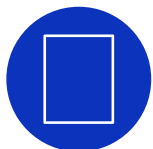
**2 HEAT SEALS
FOLDED BOTTOM
WITH LIP**



SIDE GUSSET



**SQUARE
HAND MADE**



SHEETS



ROLLS

Opening

Fold

Seal

Ask your Account Executive for styles according to your needs and our capacity.

Additional features



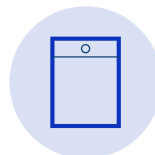
Hand hole



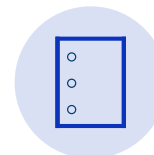
Pre-cut



**Silk screen
printing**



**Hanging
hole**



**Ventilation
holes**

Ask your Account Executive for additional features available according to your needs and our capacity.

Types of closure



Heat Seal

Bags can be sealed by applying heat to melt two layers of plastic together.



Extruded Zipper

Zipper strip added at manufacturing.



Peel and Seal

Double sided tape that is taped over the bag leaving the liner on, to be removed when you want to close the bag. Permanent adhesive.

METALLIZED



Series	Thickness	Tensile strength	Puncture resistance	MVTR Vapor Barrier
EXT-8800 ●●●●●●●●	5.6 mils	≤ 7,000 psi	≤ 30 lbs	≤ 0.0003 EXCELLENT
EXT-4400 ●●●●●●●●	4.2 mils	≤ 3,500 psi	≤ 23 lbs	≤ 0.05 LIGHT
EXT-3400 ●●●●●●●●	4.6 mils	≤ 5,500 psi	≤ 17 lbs	
EXT-3000 ●●●●●●●●	6.1 mils	≤ 8,500 psi	≤ 24 lbs	≤ 0.0003 EXCELLENT
EXT-2800 ●●●●●●●●	3.1 mils	≤ 2,800 psi	≤ 13 lbs	≤ 0.02 LIGHT
EXT-2700 ●●●●●●●●	6.2 mils	≤ 5,800 psi	≤ 30 lbs	≤ 0.005 GOOD
EXT-2100 ●●●●●●●●	3.1 mils	≤ 4,600 psi	≤ 13 lbs	≤ 0.02 LIGHT
EXT-2000 ●●●●●●●●	3.7 mils	≤ 5,300 psi	≤ 20 lbs	≤ 0.02 GOOD
EXT-1400 ●●●●●●●●	3 mils	≤ 3,500 psi	NA	VCI
EXT-1300 ●●●●●●●● <i>ID cannot be printed with tag</i>	188 mils	≤ 4,000 psi	NA	NA
EXT-1100 ●●●●●●●●	12 mils	≤ 3,500 psi	NA	NA
EXT-1000 ●●●●●●●●	3.1 mils	≤ 3,500 psi	NA	NA

● ANTI-ABRASIVE ● CUSHIONING (COUSHING) ● ESD BARRIER (SHIELDING) ● LIGHT BARRIER ● EMI (ELECTRO MAGNETIC INTERFERENCE) BARRIER

● PUNCTURE RESISTANCE ● MOISTURE BARRIER ● TRANSLUCENT ● OXYGEN BARRIER

*Complies with ANSI/ESD STM11.31 International Standard <20nJ
 These bags can be manufactured in different gauges and thicknesses.
 Ask your Account Executive which gauges apply depending on the type of series.

Styles



**2 SIDE SEALS
POUCH WITH
FOLDED BOTTOM**



3 SEALS POUCH



L SEAL POUCH



**4 SEALS POUCH
(DOUBLE POUCH)**



**BOTTOM GUSSET
WITH POUCH
SEAL**



**SEALS POUCH
WITH LIP**

Opening

Pouch Seal

Fold

Seal

Ask your Account Executive for additional features available according to your needs and our capacity.

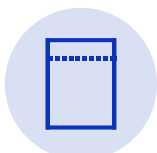
Additional features



Notch



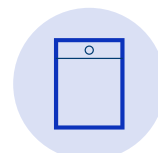
Hand hole



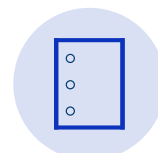
Pre-cut



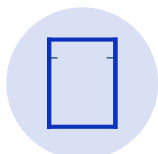
Printing



**Hanging
hole**



**Ventilation
hole**



Slit



**Double-sided
type**

Ask your Account Executive for additional features available according to your needs and our capacity.

Types of closure



Heat Seal

Bags can be sealed by applying heat to melt two layers of plastic together.



Added Zipper

Zipper strip added after manufacturing.



Peel and Seal

Double sided tape that is taped over the bag leaving the liner on, to be removed when you want to close the bag. Permanent adhesive.



Pouch

Fully hermetic heat seal for high mechanical resistance.



Mats

Mats for work surfaces, tables and floors of electronic assembly areas, with conductive and dissipative properties. Recommended for EPA's, or to cover specific areas on the production floor with or without anti-fatigue properties.



 Table Mats

Anti-Fatigue
Mats

Banana Plug
Mat Grounding
Cable

TABLE MATS

ESD protection mats for tables or workstations. Their function, apart from avoiding the generation of static on the surface, is to dissipate the static of the components that come into contact with them. Grounds the charges by means of a cable connected to a common grounding point.

Two-layer mat

MODEL	Premium
WIDTH	.60 / .90 / 1.20 m
LENGTH	10 m
TOLERANCE	2 mm
UM	Roll

Colors: Royal Blue, Grey and Green

Excellent resistance to hot solders, soldering irons and most solvents.

Low volatile organic compound (VOC) content



1 Year Electrical Warranty.



Premium blue two-layer

ERB-1060 / ERB-1090 / ERB-1012

0.60 x 10 m / 0.90 x 10 m / 1.20 x 10 m

Premium gray two-layer

ERB-1160 / ERB-1190 / ERB-1112

0.60 x 10 m / 0.90 x 10 m / 1.20 x 10 m

Premium green two-layer

ERB-1260 / ERB-1290 / ERB-1212

0.60 x 10 m / 0.90 x 10 m / 1.20 x 10 m



Wrist Strap grounding cord

Advantages of Table Mats



Retains its properties over time



Long service life



Resistant to extreme temperature



Very low VOC (Volatile Organic Compounds)

ANTI-FATIGUE MATS

Reduces stress and fatigue levels when standing during long working days. Optimal ESD composition and grounding contact.

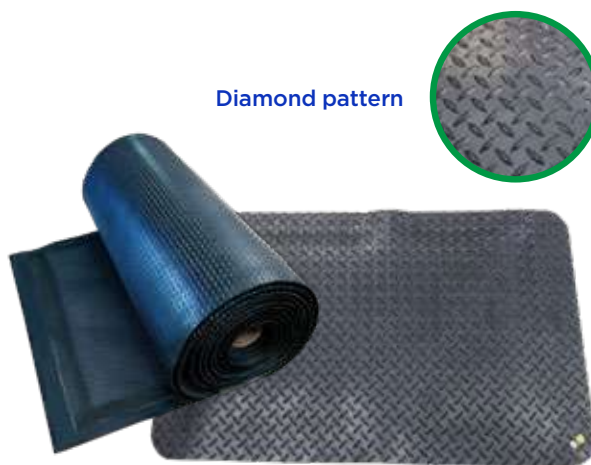
Customize your anti-fatigue mat

Size	Thickness	Finish
• 3 x 2 ft	• 9/16	• Diamond
• 3 x 5 ft	• 15/16	
• 3 x 75 ft		
• 3 x 1 ft*		

* Custom cuts.

Ask your Account Executive for more accessories.

Diamond pattern



Advantages of Anti-Fatigue Mats



Beveled
contour



Excellent resistance
to grease and
common solvents



High abrasion
resistance



Custom sizes

BANANA PLUG MAT GROUNDING CABLE

Mat grounding cable

Grounds the mat and drains mat charges to ground.

ERN-8001

RESISTANCE	1 Mohms
LENGTH	8 ft
UM	Piece



ERB-8001



ERB-9009



ERB-9001



Equipment

Very wide range of high technology equipment that helps measuring, verifying and certifying all ESD products used in EPAs, according to regulations of ESDA international standards.



 Ionization

Mesasuring

Acess Control

Continuous
Monitoring

IONIZATION

BFN



Authorized Exclusive
Distributors BFN



AC Ionizing Blower Model BFN 801

- AC ionization output • Integrated emitter cleaning device
- Variable fan speed control •Removable finger guards with auto shut-off sensor



AC Ionizing Gun Model BFN G10

- Point-And-Shoot Precision Ionization •1000v Decay: 2 seconds at 12in •Ion Balance: +15 volts •Dense Output of High Frequency AC (68KHz) Ion Emission •Ergonomic Handle Design •0.01 Micron Hollow Fiber •Filter Available



AC Extended Range Ionizing Blower Model BFN 8412

- Reliable AC output •Extended Range • Integrated heater and emitter cleaner •Variable fan speed control
- Removable finger guards with auto shut-off sensor



AC Overhead Ionizing Blower Model BFN 802

- AC ionization output •LED Task Light •Integrated emitter cleaning device •Variable fan speed control •Removable finger guards with auto shut-off sensor



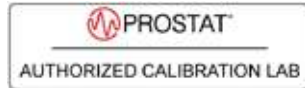
Overhead Ionizing Blower Model BFN 803

- AC ionization output •2 LED Task Lights •Integrated emitter cleaning device •Variable fan speed control
- Removable finger guards with auto shut-off sensor

MEASURING

Resistance, resistivity and voltage sensor measuring equipment. Helps to check products and areas required to remain static free. Meets standards ANSI ESD S20.20, ESDA TR53, IEC 61340-5-1.

PROSTAT



**PFM-711B
Electrostatic
Field Meter**
PST-PFM-711B



**PFK-100B Kit with
Electrostatic Field
Meter**
Ionizer Tester
PST-PFK-100B



**Wide Range
Ohmmeter Set**
PST_PAS-853B



**Digital Surface
Resistance
Test Kit**
PST_PAS-853BRM



**Resistance
System**
PST_PRS-801B



**Resistance
System Test Kit**
PST_PRS-801RM



**Resistance
Meter**
PST_PRS-812B



**Resistance
Meter Test Kit**



Suretest Ground Circuit Analyzer

Ground tester

PST_PGT-61-164



ESD Event Detector

PST-PED-718

OTHERS



StatIQ Band by IONA Tech

Body voltage monitor

EMN-SB100



Charged Plate Monitor

Prostat equipment

MONITORING

Equipment designed to ensure the proper functioning of personal grounding equipment such as Wrist Straps, heel grounders, and some types of garments. Based on measuring resistance to remain within the ranges set by international or the company's own standards.

ACCESS CONTROL



**Wrist Strap & Heel
Grounder Pedestal
Tester Equipment**
EMN-1208



Common Ground Point
EMN-9011



**Data Logging
ESD Tester**
Ask for settings and software
7100.PGT120.COM.US



**Digital Wrist Strap
& Heel Grounder
Tester Equipment**
With pulse output
EMN_PDT800K

CONTINUOUS MONITORING

Continuous monitoring equipment, used to ensure that staff is properly grounded at all times; some may also measure table mats and peripheral equipment on workbenches.



**Est Continuous
Monitoring Equipment**
EMN_PX1688



**Continuous
Monitoring Equipment**
EMN_CM1602



**Dual Conductor
Resistance Monitor,
2 Operators + 2 Mats**
EMN_CM1600



**Dual Continuous
Monitoring Equipment**
EMN_CM2815



**Dual Conductor
Resistance Monitor,
1 Operator**
EMN_CM1601



**Dual
Workstation Monitor**
EMN_CM2800



Chairs and Stools

Chairs and stools that due to their excellent dissipative properties do not generate electrostatic fields, thus protecting EPAs according to international standards.



 Fabric chair

Polyurethane
chair

Stools

Chairs and
Stool Available
Features

FABRIC CHAIR

ESD dissipative fabric chair, provides excellent ergonomics and comfort due to its internal foam rubber composition.

Fabric chair

MODEL
UM

Depends on the code
EA



Sell accesories



POLYURETHANE CHAIR

High mechanical and abrasion resistance dissipative polyurethane chair. Recommended for use in cleanrooms. Excellent cost-benefit option due to availability of spare parts.

Polyurethane chair

MODEL
UM

Depends on the code
EA



STOOLS

Stools that due to their excellent dissipative properties ground the discharges generated by the friction of the operator on the chair; for use in protected areas (EPA) according to international standards; its mechanically resistant construction allows for movement.

Polyurethane piston stool Model BE1N-LL

ECH-1602

UM EA



Polyurethane ESD stool

ECH-1501

UM EA



CHAIRS AND STOOL AVAILABLE FEATURES

POLYURETHANE CHAIR

Applicable features:



FABRIC CHAIR

Applicable features:



POLYURETHANE STOOL

Applicable features:



Examples:

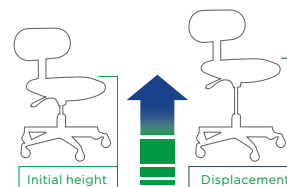
PSN-LL

Polyurethane Chair, Secretarial Piston, Standard Star, Metallic Slats.

TC1N-LL_DB

Fabric Chair, Cashier Piston with Footrest, Standard Star, Metal Slats with Armrests.

Piston	Initial height	Displacement
Secretarial	41 cm	14 cm
Cashier	75.6 cm	27 cm
Meets standards:	ANSI/ESD S20.20	ANSI/ESD STM12.1





 Coveralls

Lab Coats

Hoods & Boots

Innerwear

Characteristics
of Estatec
Coats

CLEANROOM COVERALL

The Cleanroom Coverall is a dissipative uniform that covers the operator's complete body, controlling load induction and the generation of particles inside controlled rooms; waterproof option available.

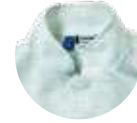


LAB COATS

Lab coats are designed to protect clothing and skin from chemicals, dissipating electrostatic charges in controlled areas to prevent the generation of particles and electrostatic discharges.



Button-covering flap



mao collar



Dissipative cuffs



Elastic cuffs



Metallic snap cuff



Long cut, above the knee

CLEANROOM HOODS

The hood is a dissipative cover that protects hair, nose and mouth; it can also be open on the face, to be used with an adapted or disposable mask.



Open Face Hood
CleanStat AD/CleanStat HD



Hood with Facemask
CleanStat AD/CleanStat HD



Eyes Only Hood
CleanStat AD/CleanStat HD

CLEANROOM BOOTS

Safety shoes are dissipative covers for footwear worn in controlled areas; slip-resistant and with the option to cover up to the ankle or full calf. An excellent complement to a coverall. Due to their construction, safety shoes are the main personal grounding system.



Estashoe Clog
CleanStat AD + Estashoe



ForTec Flexible Sole Cleanroom Boot
CleanStat AD/CleanStat HD/Taffeta



Rigid Sole Cleanroom Boot (QIII)
CleanStat AD/CleanStat HD/Taffeta

INNERWEAR

The comfortable texture of our dissipative underwear line makes it excellent for use under coveralls. It aids in controlling particle filtration and electrostatic fields more effectively in cleanrooms. This allows for a higher degree of contaminant control.



Shirt
CleanStat SW



Trousers
CleanStat SW



TABLE OF AVAILABLE CLEANROOM FABRICS

FABRIC	COMPOSITION	SIZES	COLORS	FUNCTIONALITY
CleanStat HD	• 99% Polyester • 1% Carbon fiber	• Lab Coats and Coveralls XS-3XL • One-size Hood • Cleanroom boot. S - M - L	Navy and white. M B	This product has a fluid resistant treatment and a calendaring process to protect the wearer against fluids and bacterial penetration.
CleanStat SW	• 99% Polyester • 1% Carbon fiber	• Lab Coats and Coveralls XS-3XL • One-size Hood • Cleanroom boot. S - M - L	Navy. M	Excellent texture for use in undergarments. This fabric is suitable for aseptic locations.
CleanStat AD	• 98% Polyester • 2% Carbon fiber	• Lab Coats and Coveralls XS-3XL • One-size Hood • Cleanroom boot. S - M - L	Navy, royal blue, sky blue, white, turquoise, green, indigo, orange, red, yellow, oxford and black. M A C B T V I O R Y F N	Due to its fabric composition and ESD materials it is ideal for cleanroom use, as it does not allow particles to pass through it.

**LEARN MORE ABOUT
OUR FABRICS**



CHARACTERISTICS OF ESTATEC COATS



**ESD
CERTIFIED**



**BARCODE
TRACEABILITY**
**Optional*



**CUSTOMIZED
DESIGNS**



**VARIETY IN
SIZES AND
COLORS**



**RESISTANT
AND
WASHABLE**

estatec[®]