

# PERSONAL EQUIPMENT

LABCOATS  
& GARMENTS  
GLOVES &  
OTHER PROTECTION  
SHOES & OTHER  
EARTHING  
CONNECTIONS  
OTHER EQUIPMENT

**-EUROSTAT-**

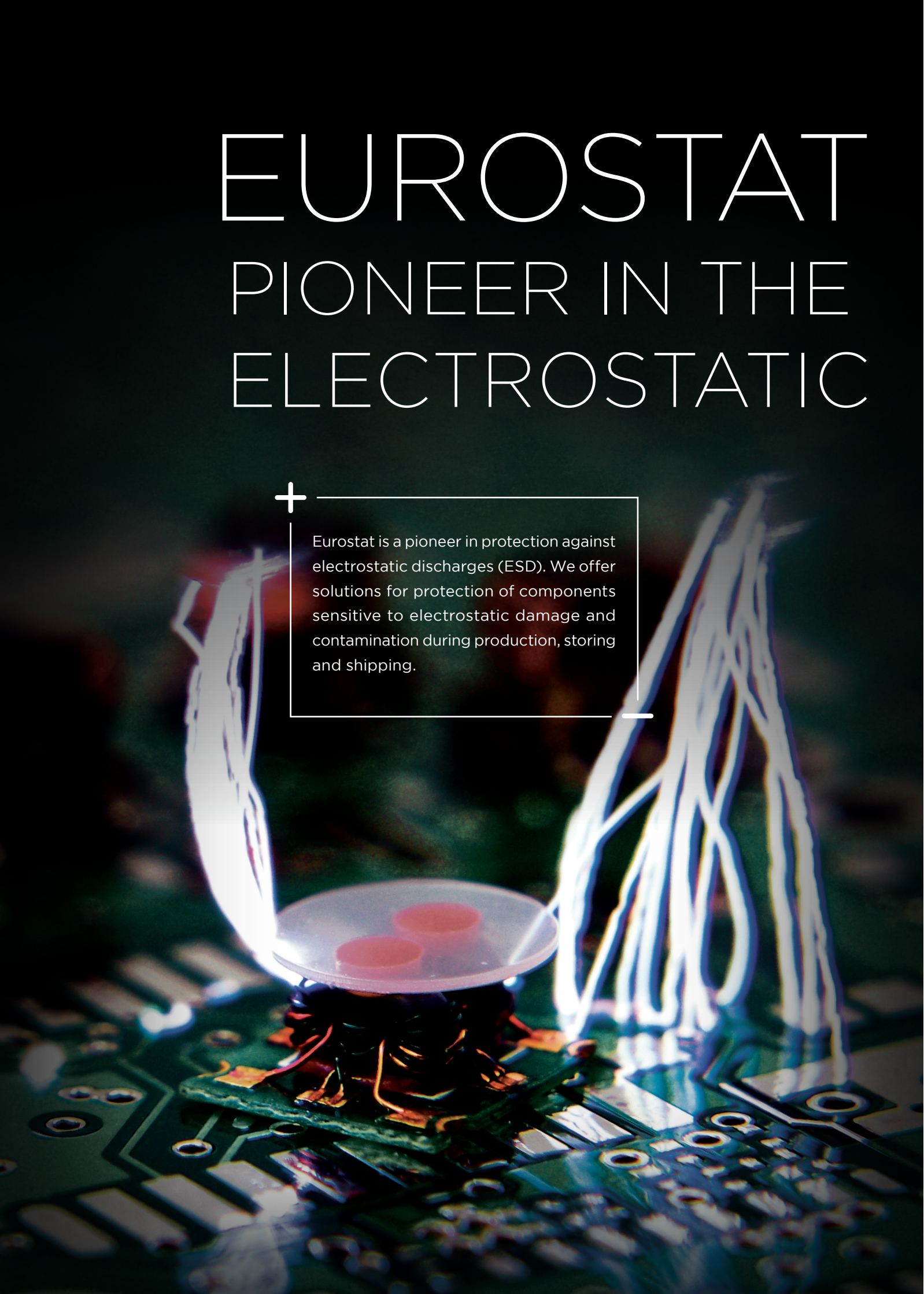
[www.eurostatgroup.com](http://www.eurostatgroup.com)

# EUROSTAT

## PIONEER IN THE ELECTROSTATIC



Eurostat is a pioneer in protection against electrostatic discharges (ESD). We offer solutions for protection of components sensitive to electrostatic damage and contamination during production, storing and shipping.



# PROTECTION OF DISCHARGES

## WHAT ARE ELECTROSTATIC DISCHARGES?

All materials are composed of atoms. Each atom is composed of a positive charge, around which gravitate many negative electrons. At rest, positive nucleus charges are equal to the sum of negative charges of the electrons that gravitate around them. The charge therefore remains neutral. Static electricity is a phenomenon which happens when two surfaces contact each other and are then separated. It's at this moment that an exchange in electrons between both surfaces can occur. At this moment occurs a movement of electrons that creates charges at the surface of both materials.

This exchange of electrons between conductive materials (and man made materials) can occur suddenly, creating an electrostatic discharge with irreversible damage, especially to electrical components.

In order to avoid those damages, it is necessary to implement the protective measures aiming elimination of all static electricity sources and consequently, prevention of the electrostatic discharges. Nevertheless, if the static discharges appear, Eurostat has developed a whole range of materials and products, providing protection for electrostatic sensitive devices such as PCBs.

### Conductive

Allows a rapid discharge to ground that can have the same effect as an ESD discharge. These materials insure a bond with ground but do not mitigate the energy exchanged during a discharge.

Grounding resistance less than  
 $R_s/R_v < 1 \times 10^4 \Omega$

### Dissipative

Allows a slower discharge from the charge carrier to the ground, reducing the risk of potential damage.

Grounding resistance is between  $10^4 < R_s/R_v < 1 \times 10^{11} \Omega$

### Insulative

Offers no grounding of electrostatic charges.

Offer no grounding of electrostatic charges  
 $R_s/R_v > 1 \times 10^{11} \Omega$



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## PERSONAL EQUIPMENT

As a member of the Dou Yee Group, Asian and World leader in ESD solutions, we offer a high quality, wide and complete range of equipment. Equipment that guarantees traceability and conformity to industry standards EN-100015, IEC61340-5-1. With quality approvals for over 13 years, Eurostat are accredited to ISO 9001 - 2015.

Our internal characterization laboratory, allows us to ensure all of our products offer conformity to the highest standard.

We provide equipment dedicated to prevent the possibility of risk to product and personnel, protecting against electrostatic discharge and particle contamination.



# GLOSSARY

- ABS:** Acrylonitrile-Butadiene-Styrene
- APET:** Amorphous Polyethylene Terephthalate
- Carbon Nanotubes:** Two dimensional layers of carbon atoms, providing conductivity or dissipation to PS matrix, depending on concentration in the material
- CPM:** Charge Plate Monitor measures voltages applied to it's sensing plate
- Directive RoHS:** European Directive: Limiting the use of certain dangerous substances in association with electrical and electronic components
- EMI:** Electromagnetic interference
- EPA:** Electrostatic Protected Area (An area of complete ESD protection)
- ESD:** Electro-static Discharge
- European Standard IEC 61340-5-1:** Protection of electro static sensitive devices
- LDPE, HDPE:** Low density PolyEthylene, High density PolyEthylene
- PC:** PolyCarbonate
- PCB:** Printed circuit board
- PE:** PolyEthylene
- PP:** PolyPropylene
- PS:** PolyStyrene

- PU:** PolyUrethane
- RV (volume resistance):** Resistance test between the surfaces of a material
- RS (surface resistance):** Measurement taken from the surface area of a material
- Shielding:** Material offering a Faraday cage
- SMD:** Surface Mount Devices
- Standards EIA-583 / EIA-541 /EIA-625:** Standards related to the packaging of humidity sensitive parts
- TPU:** Thermoplastic Polyurethanes
- VCI:** Vapor Corrosion Inhibitor
- Mtvr:** Moisture Vapor Transmission Rate
- EN388 Norm:** For mechanical glove standard

	Rating	
Abrasion	1-4	
Cut (Coup Test)	1-5	
Tear	1-4	
Puncture	1-4	
Cut (TDM-100 Test)	A-F	
Impact Protection	P	



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## TRAINING, AUDIT & SERVICE







# 01

## LABCOATS AND GARMENTS

+

Eurostat offers a complete range of clothing for staff inside and outside an ESD protected area: Labcoats, T-shirts, polos, fleeces, coveralls, etc...

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# 1. LABCOATS

## 1.1. Labcoats 4 x 4 mm grid



- Its 33% cotton fabric provides high comfort and durability
- Dissipative surface
- Button poppers are covered by fabric to avoid metal snaps being exposed
- Snap buttons on the sleeves
- Other colours on request
- Company logo on request
- Customized printing available: embroidery, silkscreen and hot stamped printing

Protective labcoats with thin conductive grid will prevent an operator holding a charge, dissipating electrostatic charges to ground. Ideal for ESD safe environments.

**Conforms to IEC 61340-5-1**

### Technical Data

- Fabric: 33 % cotton / 63 % polyester / 4 % carbon
- Conductive grid: 4 x 4 mm
- Durability: 50 washes at 30°C
- Density: 150gr/m<sup>2</sup> +/- 10%
- Surface resistance Rs: < 10<sup>8</sup> Ω
- Colours available: White, light blue, blue, black



Size	Length in cm	Part number White	Part number Light Blue	Part number Blue	Part number White	Part number Blue	Part number Black
XS	85	51-100-2010	51-100-2510	51-100-2610	51-150-0010	51-150-0110	51-150-0210
S	90	51-100-2015	51-100-2515	51-100-2615	51-150-0015	51-150-0115	51-150-0215
M	95	51-100-2020	51-100-2520	51-100-2620	51-150-0020	51-150-0120	51-150-0220
L	100	51-100-2025	51-100-2525	51-100-2625	51-150-0025	51-150-0125	51-150-0225
XL	105	51-100-2030	51-100-2530	51-100-2630	51-150-0030	51-150-0130	51-150-0230
XXL	110	51-100-2035	51-100-2535	51-100-2635	51-150-0035	51-150-0135	51-150-0235
3XL	115	51-100-2040	51-100-2540	51-100-2640	51-150-0040	51-150-0140	51-150-0240
4XL	120	51-100-2045	51-100-2545	51-100-2645	51-150-0045	51-150-0145	51-150-0245

## 1.2. Labcoats 5 x 5 mm grid



Labcoats suitable for less sensitive environments. Light fabric. High durability. Snaps on sleeves

### Technical Data

- Conductive grid: 5 x 5 mm
- Durability: 50 washes at 40°C
- Density: 120gr/m<sup>2</sup> +/- 10%
- Surface resistance Rs: < 10<sup>9</sup> Ω
- Fabric : 24 % cotton / 74 % polyester / 2 % carbon

Conforms to IEC 61340-5-1



- Company logo on request
- Customised printing available: embroidery, silkscreen and hot stamp
- White and blue model

Short Version			Standard Version	
Size	Length in cm	Part number	Length in cm	Part number
XS	77	51-720-5001A	97	51-720-0010A
S	78	51-720-5002A	98	51-720-0015A
M	79	51-720-5003A	99	51-720-0020A
L	82	51-720-5004A	102	51-720-0025A
XL	83	51-720-5005A	103	51-720-0030A
XXL	84	51-720-5006A	104	51-720-0035A
3XL	85	51-720-5007A	105	51-720-0040A
4XL	86	51-720-5008A	106	51-720-0045A

## 1.3. Disposable Labcoat



Low tribocharging labcoats for ESD protected areas. Ensure protection against dust and particle contamination.

### Technical Data

- Fabric: SMS (Spunbonded Meltblown Spunbonded)
- Density: 60 g/m<sup>2</sup>
- Surface resistance Rs : <10<sup>12</sup> Ω
- Colour: White
- ESD properties

### Disposable low tribocharging labcoats

Size	Part number
------	-------------

S	51-830-0133
M	51-830-0134
L	51-830-0135
XL	51-830-0136



4 plastic studs, collar and pockets.

## 2. POLOS AND T-SHIRTS

### 2.1. Short sleeve polo shirts



Comfortable and light weight garment available in different colours, with the possibilities of customized marking (silkscreen, embroidery, flex).

Conforms to IEC 61340-5-1

Size	Part number Grey	Part number Dark blue
XS	51-730-5005A	51-730-1005A
S	51-730-5010A	51-730-1010A
M	51-730-5015A	51-730-1015A
L	51-730-5020A	51-730-1020A
XL	51-730-5025A	51-730-1025A
XXL	51-730-5030A	51-730-1030A

Size	Part number Grey	Part number Dark blue
XS	51-730-5005A	51-730-1005A
S	51-730-5010A	51-730-1010A
M	51-730-5015A	51-730-1015A
L	51-730-5020A	51-730-1020A
XL	51-730-5025A	51-730-1025A
XXL	51-730-5030A	51-730-1030A

Durability: 40 washes at 40°C (without chlorine)

#### Technical Data

Fabric: 48 % cotton / 48 % polyester / 4 % carbon

#### Customized logo's available

- Embroidery
- Silkscreen
- Flex



Other colours on request

### 2.2. Long sleeve polo shirts



Comfortable and light weight garment available in different colours, with the possibilities of customized marking (silkscreen, embroidery, flex).

Conforms to IEC 61340-5-1

Size	Part number Grey	Part number Dark Blue
XS	51-735-5005A	51-735-3005A
S	51-735-5010A	51-735-3010A
M	51-735-5015A	51-735-3015A
L	51-735-5020A	51-735-3020A
XL	51-735-5025A	51-735-3025A
XXL	51-735-5030A	51-735-3030A
3XL	51-735-5035A	51-735-3035A
4XL	51-735-5040A	51-735-3040A

Size	Part number Grey	Part number Dark Blue
XS	51-735-5005A	51-735-3005A
S	51-735-5010A	51-735-3010A
M	51-735-5015A	51-735-3015A
L	51-735-5020A	51-735-3020A
XL	51-735-5025A	51-735-3025A
XXL	51-735-5030A	51-735-3030A
3XL	51-735-5035A	51-735-3035A
4XL	51-735-5040A	51-735-3040A

Durability: 40 washes at 40°C (without chlorine)

#### Technical Data

Fabric: 48 % cotton / 48 % polyester / 4 % carbon

#### Customized logo's available

- Embroidery
- Silkscreen
- Flex



Other colours on request

## 2.3. Crew neck & V-neck T-shirts

Comfortable and light weight garment with static dissipative surface.



### Technical Data Crew neck

Fabric: 96 % cotton / 4 % carbon

Conforms to IEC 61340-5-1

### Technical Data V-neck

Fabric: 98 % cotton / 2 % carbon

Durability: 40 washes at 40°C

### Customised logo's available

- Embroidery
- Silkscreen
- Flex



Other colours on request

Size	Part number Crew Blue	Part number Crew White	Part number Crew Black	Part number V-neck Blue	Part number V-neck Red	Part number V-neck Black
XS	51-731-0005A	51-732-0000A	51-732-1000A	51-300-0210	51-300-0010	51-300-0110
S	51-731-0010A	51-732-0005A	51-732-1005A	51-300-0215	51-300-0015	51-300-0115
M	51-731-0015A	51-732-0010A	51-732-1010A	51-300-0220	51-300-0020	51-300-0120
L	51-731-0020A	51-732-0015A	51-732-1015A	51-300-0225	51-300-0025	51-300-0125
XL	51-731-0025A	51-732-0020A	51-732-1020A	51-300-0230	51-300-0030	51-300-0130
XXL	51-731-0030A	51-732-0025A	51-732-1025A	51-300-0235	51-300-0035	51-300-0135
3XL	51-731-0035A	51-732-0030A	51-732-1030A	51-300-0240	51-300-0040	51-300-0140
4XL	51-731-0040A	51-732-0035A	51-732-1035A	51-300-0245	51-300-0045	51-300-0145

# 3. JACKETS

## 3.1. Sweatshirts

Dissipative jacket with central zipper, two pockets and ESD logo.

Conforms to IEC 61340-5-1



### Taille Part Nr.

Taille	Part Nr.
XS	51-761-0005A
S	51-761-0010A
M	51-761-0015A
L	51-761-0020A
XL	51-761-0025A
XXL	51-761-0030A

Washing temperature: 40°C

### Technical Data

- 48 % cotton / 48 % polyester / 4 % carbon
- Colour: Blue

### Customized logo's available

- Embroidery
- Silkscreen
- Flex

## 01. LABCOATS AND GARMENTS

### 3.2. Fleece



Dissipative fleece jacket with central zipper, two pockets and ESD logo.

Size	Part number	Part number
	Light Grey	Dark blue
XS	51-761-0205	51-761-0305
S	51-761-0210	51-761-0310
M	51-761-0215	51-761-0315
L	51-761-0220	51-761-0320
XL	51-761-0225	51-761-0325
XXL	51-761-0230	51-761-0330

Conforms to  
IEC 61340-5-1

Washing  
temperature:  
30°C

#### • Technical Data

- Fabric: 97% polyester / 3% carbon
- Colours: Light grey / Dark blue

#### Customised logo's available

- Embroidery



- Fleece available without sleeves (51-761-05xx)

## 4. LABELINGS

### FOR CUSTOMIZED LOGO'S

#### Please send us:

- Your logo artwork
- Dimension and desired location
- Type face of text
- Quantity

#### Silkscreen printing

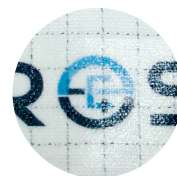


- Position anywhere on the garment
- Costs related to the number of colours



- Advantageous for medium and large quantities

#### Printable transparent Flex



- Ideal for complex logo design
- Excellent value compared to stamp printing



- Advantageous for small and medium quantities

#### Flex cutting

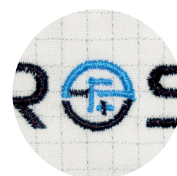


- Great quality at a competitive price



- Advantageous for small quantities

#### Embroidery



- Not recommended for large quantities
- Longer lead times on pocket



- Excellent durability



# 02

## GLOVES AND OTHER PROTECTION



In order to avoid particle contamination and generation of electrostatic discharges Eurostat offers gloves, finger cots and bouffant caps for EPA zone staff.



# 1. GLOVES

## 1.1. Dissipative gloves



We offer polyurethane coated finger tips and palms, to increase protection and grip

Thin gloves to preserve sensitivity. Made of textured nylon with other additives to provide ESD protection with elastic wrist.

### Technical Data

- $R_s < 1 \times 10^9 \Omega$



Conforms to IEC 61340-5-1



51-690-01xx



51-690-02xx



51-690-03xx

Versions	Size	Part number White	Part number Grey	Length
NO COATING	XS	51-690-0101	51-690-1101	200 mm +/-5mm
	S	51-690-0100	51-690-1100	210 mm +/-5mm
	M	51-690-0105	51-690-1105	220 mm +/-5mm
	L	51-690-0110	51-690-1110	228 mm +/-5mm
	XL	51-690-0115	51-690-1115	235 mm +/-5mm
	XXL	51-690-0120	51-690-1120	240 mm +/-5mm
FINGER TIPS PU COATED	XS	51-690-0201	51-690-1201	200 mm +/-5mm
	S	51-690-0200	51-690-1200	210 mm +/-5mm
	M	51-690-0205	51-690-1205	220 mm +/-5mm
	L	51-690-0210	51-690-1210	228 mm +/-5mm
	XL	51-690-0215	51-690-1215	235 mm +/-5mm
	XXL	51-690-0220	51-690-1220	240 mm +/-5mm
PALM AND FINGER PU COATED	XS	51-690-0301	51-690-1301	215 mm +/-5mm
	S	51-690-0300	51-690-1300	225 mm +/-5mm
	M	51-690-0305	51-690-1305	235 mm +/-5mm
	L	51-690-0310	51-690-1310	243 mm +/-5mm
	XL	51-690-0315	51-690-1315	250 mm +/-5mm
	XXL	51-690-0320	51-690-1320	255 mm +/-5mm



## 1.2. Cleanroom gloves

Conforms to  
IEC 61340-5-1



51-690-05xx

- Thin gloves in polyester non-woven fabric with carbon fiber to preserve sensitivity
- Cleanroom compatible

### Technical Data

- Fabric: 100 % polyester
- Surface resistance:  $R_s < 10^9 \Omega$



51-690-06xx



51-695-00xx

Versions	Size	Part number	Length
NO COATING	S	51-690-0500	210 mm +/-5mm
	M	51-690-0505	220 mm +/-5mm
	L	51-690-0510	228 mm +/-5mm
	XL	51-690-0515	235 mm +/-5mm
PALM PU COATED	S	51-690-0600	210 mm +/-5mm
	M	51-690-0605	220 mm +/-5mm
	L	51-690-0610	228 mm +/-5mm
	XL	51-690-0615	235 mm +/-5mm
PVC DOTS ON PALM	S	51-695-0011	210 mm +/-5mm
	M	51-695-0012	220 mm +/-5mm
	L	51-695-0013	230 mm +/-5mm
	XL	51-695-0014	240 mm +/-5mm

## 02. GLOVES AND OTHER PROTECTION

### 1.4. Anti-cut gloves



Grey Dyneema fiber.

#### Technical Data

- Fabric: Grey Dyneema fibre (13 gauges), palm PU coated
- Cut Resistivity Degree: 5 (according to EN 388) (level 3 available on request)
- Surface resistance Rs:  $1 \times 10^7 - 1 \times 10^9 \Omega$



Conforms to IEC 61340-5-1

Size	Length	Wrist Colour	Part number
S	178 mm +/-2mm	Pink	51-695-1005A
M	203 mm +/-2mm	Green	51-695-1010A
L	229 mm +/-2mm	Grey	51-695-1015A
XL	254 mm +/-2mm	Yellow	51-695-1020A
XXL	279 mm +/-2mm	Brown	51-695-1025A

### 1.5. High temperature gloves

Eurostat offers dissipative high temperature resistant gloves on request: 150°C, 200°C, 300°C.  
Product only available on demand.

## 2. DISPOSABLE GLOVES

### 2.1. Disposable vinyl gloves



Tear resistant and hypoallergenic.

Protect against contamination.

Contamination protection for semiconductor, electronics, aerospace, pharmaceutical, optics and biotechnologic industries.

Conforms to IEC 61340-5-1

#### Technical Data

- Surface resistance Rs:  $< 1 \times 10^{11} \Omega$
- Cleanroom compatible
- ESD properties

Size	Length	Part number
S	9" (23 cm)	51-675-0030
M	9" (23 cm)	51-675-0031
L	9" (23 cm)	51-675-0032
S	12" (30 cm)	51-675-0040
M	12" (30 cm)	51-675-0041
L	12" (30 cm)	51-675-0042

## 2.2. Disposable nitrile gloves



Comfort and hypoallergenic. Contamination protection for semiconductor, electronics, aerospace, pharmaceutical, optics and biotechnologic industries.

Conforms to IEC 61340-5-1

### Technical Data

- Surface resistance Rs:  $< 1 \times 10^{11} \Omega$
- Cleanroom compatible
- ESD properties

Size	Length	Part number
S	9" (23 cm)	51-690-0701
M	9" (23 cm)	51-690-0702
L	9" (23 cm)	51-690-0703
S	12" (30 cm)	51-690-0704
M	12" (30 cm)	51-690-0705
L	12" (30 cm)	51-690-0706

# 3. FINGER COTS

## 3.1. Conductive finger cots



- Ultra-low level of extractable / residual ions.
- Powder-free design with special packaging to prevent particle contamination and ensure cleanroom compatibility.
- Carbon black compound used in the manufacturing process will not leave a residue, migrate or contaminate.

Conforms to IEC 61340-5-1

### Technical Data

Size	Part number
S	51-675-0095
M	51-675-0100
L	51-675-0101
XL	51-675-0102

### Technical Data

- Material: 100 % pure latex
- Surface resistance Rs:  $1 \times 10^4 \Omega - 1 \times 10^{11} \Omega$
- Cleanliness category: ISO 6
- ESD properties
- Colour: black

## 3.2. Dissipative finger cots



- Washed under a controlled process to remove particles and reactive ions (Na+, K+, Ca2 etc...)
- Ultra-low powder cot surface minimizes particle contamination.
- Ultra-low levels of extractable and residual ions prevent product failure.
- Packed in a clean environment.

Conforms to IEC 61340-5-1

### Technical Data

Size	Part number
S	51-675-0096
M	51-675-0097
L	51-675-0098
XL	51-675-0099

### Technical Data

- Material: 100 % pure latex
- Surface resistance Rs:  $1 \times 10^4 \Omega$  to  $1 \times 10^{11} \Omega$  suitable for handling of class II, category B (100V) ESD
- Colour: Pink
- Cleanliness category: ISO 6
- ESD properties

# 4. BOUFFANT CAPS



### Technical Datas

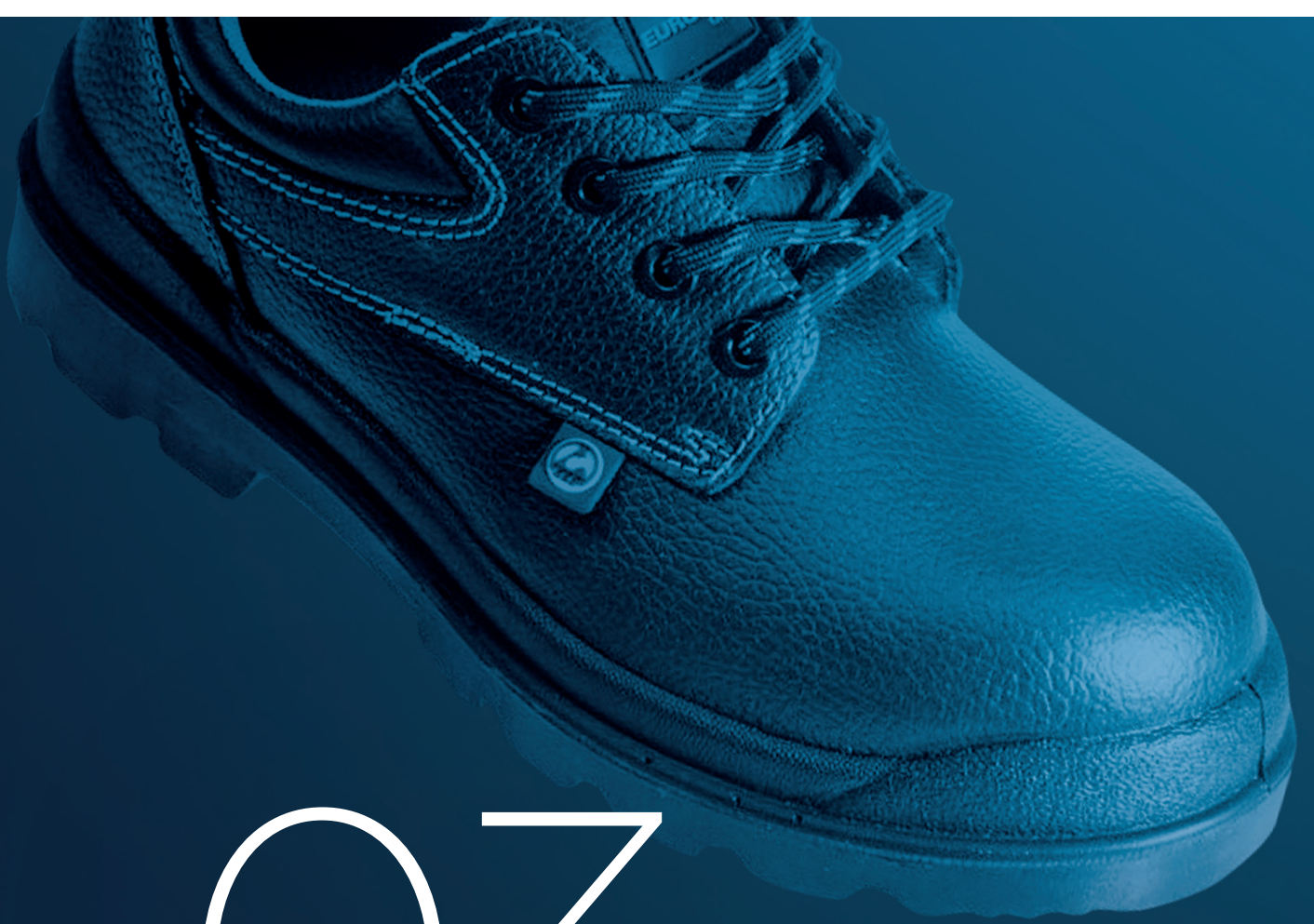
- Colour: White
- Size: 53 cm
- ESD properties

Conforms to  
IEC 61340-5-1



Lightweight solution to protect workers in dirty, non-toxic and non-hazardous environments, avoids hair loss contamination in clean environments..

Description	Material	Part number
Bouffant Caps	SMS 20g. 21" (Spunbonded Meltblown Spunbonded)	52-100-0001



# 03

## FOOTWEAR & OTHER EARTHING CONNECTIONS



To avoid electrostatic discharges on components, operators must be grounded. Eurostat provides ESD safe shoes (safety or non-safety), toe caps, overshoes, heel grounders and a whole range of grounding components.



# 1. ESD SHOES

FOR AREAS WHERE SAFETY SHOES ARE NOT REQUIRED



Nature Sandals

1



Part Nr. : 50-803-0xxx



Sandals

2



Part Nr. : 50-802-08xx



Sneakers

3



Part Nr. : 50-801-35xx



Sneakers

4



Part Nr. : 50-800-58xx



Women dress shoes

5



Part Nr. : 50-800-60xx



Men dress shoes

6



Part Nr. : 50-328-61xx

Size	Charatheristics	Part number
35 to 47	<ul style="list-style-type: none"> <li>• Smooth leather - black or white</li> <li>• Leather coated cork footbed</li> <li>• 2 adjustable instep straps</li> <li>• Velcro fastening</li> </ul>	Black 50-803-07xx  White 50-803-08xx

**1**

CE EN ISO  
20347:2012

Conforms to  
IEC 61340

Size	Characteristics	Part number
36 to 47	<ul style="list-style-type: none"> <li>• Perforated white leather</li> <li>• PU Midsole</li> <li>• Slip resistant rubber sole</li> <li>• Heel strap: foldable, adjustable</li> </ul>	50-802-08xx

**2**

Conforms to  
IEC 61340-5-1

CE EN ISO  
20345:2011

Size	Charatheristics	Part number
37 to 47	<ul style="list-style-type: none"> <li>• Functional leather with honeycomb pattern: black</li> <li>• Slip resistance TPU sole</li> <li>• Foamed PU midsole</li> <li>• Scratch-proof</li> </ul>	50-801-35xx

**3**

CE EN ISO  
20347:2012

Conforms to  
IEC 61340

Size	Characteristics	Part number
35 to 47	<ul style="list-style-type: none"> <li>• Knitted textile - blue</li> <li>• Foamed PU midsole</li> <li>• Slip resistance TPU outsole sole</li> <li>• Instep area with lacing</li> </ul>	50-800-58xx

**4**

Conforms to  
IEC 61340

CE EN ISO  
20345:2012  
S1

Size	Charatheristics	Part number
36 to 42	<ul style="list-style-type: none"> <li>• Smooth leather - black</li> <li>• Lining microfiber, respiration absorbing</li> <li>• Heel 60 mm</li> </ul>	50-800-60xx

**5**

Conforms to  
IEC 61340

Size	Characteristics	Part number
40 to 48	<ul style="list-style-type: none"> <li>• Black leather</li> <li>• PU outsole</li> <li>• Resistant to oil and most chemicals</li> <li>• Energy absorbency</li> </ul>	50-328-61xx

**6**

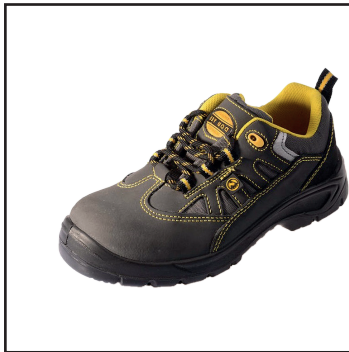
Conforms to  
IEC 61340

CE EN ISO  
20345:2011

## 2. ESD SAFE & SECURITY

DOU YEE

1



Part Nr. : 50-520-02xx

DOU YEE

2



Part Nr. : 50-520-12xx

 **Sievi** Sneakers

3



Part Nr. : 50-300-61xx

Sneakers  **Sievi**

4



Part Nr. : 50-300-64xx



5



Part Nr. : 50-800-59xx



Men dress shoes

6



Part Nr. : 50-800-09xx



Size	Charatheristics	Part number
36 to 48	<ul style="list-style-type: none"> <li>• Black/grey Nubuck leather</li> <li>• Composite cap toe</li> <li>• Energy absorbency and slip resistant</li> <li>• PU insole and outsole</li> </ul>	50-520-02xx

1

CE EN ISO  
20345:2011

CE EN ISO EN  
20345: 2011  
S1P

2

Size	Characteristics	Part number
36 to 47	<ul style="list-style-type: none"> <li>• PU Microfiber dark blue or white</li> <li>• Composite cap toe</li> <li>• Light weight</li> <li>• PU insole and outsole</li> <li>• Non-marking outsole and slip resistant</li> <li>• Resistant to oil and most chemicals</li> </ul>	Grey 50-520-12xx  Dark blue 50-520-13xx

Size	Characteristics	Part number
35 to 48	<ul style="list-style-type: none"> <li>• Leather and microfiber</li> <li>• PU outsole</li> <li>• Steel toe cap</li> <li>• Puncture resistant</li> <li>• Resistant to oil and most chemicals</li> <li>• Water resistant</li> </ul>	50-300-61xx  Women version on request

3

CE EN ISO  
20345:2011 S3

CE EN ISO  
20345:2011 S3

4

Size	Charatheristics	Part number
35 to 48	<ul style="list-style-type: none"> <li>• PU coated leather, Split leather, Textile</li> <li>• Steel toe cap</li> <li>• Memory foam ankle protection</li> <li>• Laces fastening</li> </ul>	50-300-64xx

Size	Charatheristics	Part number
36 to 46	<ul style="list-style-type: none"> <li>• Grained leather - black</li> <li>• Steel toe cap</li> <li>• Slip resistance PU outsole sole</li> <li>• Buckle fastening</li> </ul>	50-800-59xx

5

CE EN ISO  
20345:2012  
SB

Conforms to  
IEC 61340

Conforms to  
IEC 61340-5-1

CE EN ISO  
20345:2011

6

Size	Characteristics	Part number
36 to 48	<ul style="list-style-type: none"> <li>• Black leather</li> <li>• Steel toe cap</li> <li>• Leather lining</li> </ul>	50-800-09xx

# -EURⓈSTAT-

Eurostat offers a wide range of ESD safe workshoes for all your needs and all workplaces



Browse our full selection of ESD safe and Security ESD safe shoes or ask your dedicated sales officer for our full range of shoes





# 3. ESD OVERSHOES

## 3.1. ESD Safe overshoes

### a. Overshoes with grounding band



Easy and safe solution for EPA visitors  
Not adaptable to the overshoe dispenser 30-551-5000.

Description	Part number
Non-woven blue overshoes MOQ 500 pairs	30-551-0005

#### Technical Data

- Material: Polypropylene
- Resistance to ground  $R_g < 1 \times 10^5 \Omega$
- Colour: Blue

### b. Cleanroom overshoes



Ideal overshoes to protect workers in dirty, non-toxic and non-hazardous environments. Comfortable, strong, durable, preventing and stopping dust and dirt particles.

Density	Dimensions	Part number
50 g	17 x 41 cm	52-100-0014

#### Technical Data

- Material : Polypropylene SMS (Spunbonded Meltblown Spunbonded)
- Colour : white

## 3.2. Automatic Overshoe dispenser



Especially developed for visitors of ESD protected areas and cleanrooms.

Description	Part number
Automatic overshoe dispenser (without overshoes)	30-551-5000
Conductive overshoes for automatic dispenser MOQ 1000 pairs	30-551-5001

#### Technical Data

- Overshoe easily applied in few seconds
- Contains 40 to 50 pairs
- Overshoes resistance to ground  $R_g < 1 \times 10^5 \Omega$

## 4. SHOE STRAP GROUNDING



### Technical Data

- Slip resistant
- Easy fastening with black plastic buckle
- Contact ribbon inserted in shoe or sock
- To be worn on both feet
- Safety resistance Rg: 1,5 M Ω

Contact ribbon length in cm	Part number
57	30-560-0044
90	30-560-0043

### 4.1. For shoes with heel



### Technical Data

- Conductive non-slip outer sole provides reliable contact to ground for high heel shoes
- Contact ribbon inserted in shoe
- To be worn on both feet
- Safety resistance Rg: 1,5 M Ω

Conforms to  
IEC 61340-5-1

Description	Part number
Strap for shoes with heels	30-560-0053

### 4.2. Disposable shoe straps



Conforms to  
IEC 61340-5-1

### Technical data

- Reliable static charge dissipation to ground
- To be worn on both feet
- Resistant to ground Rg:  $1 \times 10^6 \Omega$

Length in cm	Part number
30	30-560-0045
60	30-560-0046

### 4.3. Dispenser for disposable shoe straps



### Technical Data

- Dispenses approximately 100 pairs of 30-560-0045/46
- Can be easily wall-mounted
- Material: Yellow dissipative PS

Description	Part number
Dispenser for disposable shoe straps 30cm	30-560-0047
Large dispenser for disposable shoe straps 60cm	30-560-0056

# 5. GROUNDING ACCESSORIES

## 5.1. Fabric wrist straps



- Both sides are conductive
- Adjustable to any wrist size

Connection	Part Nr.
4 mm stud	30-560-0004
7 mm stud	30-560-0007
10 mm stud	30-560-0010

Crimson red colour, for grounding operators to avoid electrostatic discharge to components.

IEC  
61340  
Compliant

### Technical Data

- Material Non allergenic
- $R_v < 1 \times 10^5 \Omega$
- Male stud connection
- Washable
- Colour: Crimson red

## 5.2. Metal wrist bands



- Insulated external side and conductive internal side
- Adjustable to any wrist size

Connection	Part Nr.
4 mm stud	30-560-4004
7 mm stud	30-560-4007
10 mm stud	30-560-4010

Superior reliability for grounding operators

IEC  
61340  
Compliant

### Technical Data

- Conductive bracelets
- $R_v < 1 \times 10^5 \Omega$
- Superior reliability
- Nickel free
- Male stud connection

## 5.3. Plastic wrist bands



- Hygienic washable wrist band
- Insulated external side and conductive internal side

Clean room compatible.

### Technical Data

- Thermoplastic material
- $R_v < 1 \times 10^5 \Omega$
- Male stud connection
- Colour: Blue

Connection	Part Nr.
4 mm stud	30-560-0111
7 mm stud	30-560-0112
10 mm stud	30-560-0113

## 5.4. Dual cord wrist straps

Designed to operate with the workstation monitors.

IEC  
61340  
Compliant

### Fabric



- Both sides are conductive
- Adjustable to any wrist size

#### Technical Data

- Non allergenic material
- $R_v < 1 \times 10^5 \Omega$
- Male stud connection
- Washable
- Colour: brown, polyester fiber

### Metal



- Insulated external side and conductive internal side
- Conductive wrist band

#### Technical Data

- Nickel free
- $R_v < 1 \times 10^5 \Omega$
- Male stud connection

Part Nr. :

Size S : Part Nr. 30-560-3010

Size L : Part Nr. 30-560-3011

## 5.5. Disposable wrist band



- For single use applications
- Adheres to any convenient electrical ground

#### Technical Data

- Non woven, conductive and aluminium film
- Length: 152 cm / width: 2.54 cm
- $R_v < 1 \times 10^6 \Omega$

Part Nr.: 30-560-0209

IEC  
61340  
Compliant

### 03. SHOES & GROUNDING ACCESSORIES

#### 5.6. Cords

##### Coil Cords

- Resistance: 1 MΩ
- Female Stud Connection
- Colour: black



- Other lengths and connections on request
- Connections to fit most grounding systems worldwide

30-560-06XX GSGS



30-560-06XX BANANA



##### Coil Cords

Connections in mm	Length in m	Part number
4 mm / banana	1,80	30-560-0604
4 mm / banana	3,00	30-560-1004
7 mm / banana	1,80	30-560-0607
7 mm / banana	3,00	30-560-1007
10 mm / banana	1,80	30-560-0610
10 mm / banana	3,00	30-560-1010
Studs 4 mm / 10 mm	1,80	30-560-0641
Studs 7 mm / 7 mm	1,80	30-560-0677
Studs 10 mm / 10 mm	1,80	30-560-0611
Studs 7 mm / 10 mm	1,80	30-560-0671
4 mm / GSGS	1,80	30-560-0614
4 mm / GSGS	3,00	30-560-1014
4 mm / eyelet	3,60	30-560-1214

##### Dual conductor coiled cords

- Designed to be used with workstation monitor
- Resistance: 1 MΩ
- Length: 1,80 m

Part Nr. : 30-560-0600



##### Straight grounding cord

- Connection to the mat: 10 mm female stud (coil cord)
- Ground connection: Plug (Euro)
- Length: 1,50 m

Part Nr. : 30-552-5005





## 5.7. Field Service kit



- Provides efficient static protection in a compact package that fits easily into most tool cases.
- Two pockets sewn into the work surface for cords storage.

Dedicated to a technician operating on site.

Kit includes:

- High quality static dissipative work surface 54 x 61 cm
- 16.6cm x 23.6 when folded in pouch
- Adjustable fabric 10mm stud wrist strap
- Grounding cord connection for wrist strap/mat
- Carrying case

**Thickness mm** 0.8

### Technical data:

- Dimensions: 540 x 610 mm
- Surface resistance  $R_s$ :  $< 1 \times 10^9 \Omega$
- Volume resistance  $R_v$ :  $< 1 \times 10^9 \Omega$
- Colour: Red

Part Nr. : 31-560-0509 (with pouch)

## 6. HAND LOTION



- Moistens skin for better contact between the wrist band and the skin.
- Absorbed immediately, does not interfere with grip or dexterity.

### Bottle characteristics

Bottle characteristics	Capacity	Part Nr.
ESD	450 ml	41-097-0010
ESD	230 ml	41-097-6000

The background of the entire page is a blue-tinted photograph of three ESD test dummies. They are positioned in a line, facing right. The dummies are wearing headgear with a grid pattern. The scene is dimly lit, with some equipment and a wooden stand visible in the foreground and background.

# 04

## TRAINING AUDIT & SERVICE



Eurostat, ESD Expert and voting member of the IEC/TC101 "electrostatics", offers on site audits and product characterization.

# 1. TRAINING YOUR EMPLOYEES



As ESD sensitivity of products increases the production operators and production coordinators need to adapt to a very demanding technical environment. In order to make sure that the operators follow proper procedures, it is advised and required to provide professional ESD training.

Eurostat is a certified training institute (agreement number: 43390015239) and provides training with experts supervised by the French President of TC 101.

The training can be offered in English or in French, 3 training levels are available.

## Level 1

Attendees	Goals	Sessions
<ul style="list-style-type: none"> <li>Operators</li> <li>Manufacturing support</li> <li>Management</li> </ul>	<ul style="list-style-type: none"> <li>To understand why and how damages and defects, due to static electricity occur</li> <li>To have a clear view of the wide spectrum of risks, damages and defects in case of no-adherence or drift from the rules and means of prevention</li> </ul>	Approx 3h30 (recommended period)

## Level 2

Attendees	Goals	Sessions
<ul style="list-style-type: none"> <li>Engineers</li> <li>Technicians</li> <li>Management with engineering background</li> </ul>	<ul style="list-style-type: none"> <li>To take care that all prevention rules are implemented and respected by all personnel working within or entering an EPA</li> <li>To be aware of the basic methods and tools currently used to make measurements in an EPA</li> </ul>	Approx 4h30 (recommended period)

## Level 3

Attendees	Goals	Sessions
<ul style="list-style-type: none"> <li>ESD coordinators</li> <li>Supervisors</li> <li>Instructors</li> </ul>	<ul style="list-style-type: none"> <li>To establish a complete Prevention and Control Plan preventing static electricity</li> <li>To propose progress axis and fitted preventive or corrective actions</li> <li>To prepare in-house audits thanks to punctual help of third-part ESD experts</li> </ul>	Approx. 3h00 (recommended period)



Our training programs, which are continuously improved and updated, can be adapted to companies individual needs and tailored to suit your company and the ESD experience of your employees.

After each training session, a personalised certificate is presented to each attendee.

## 2. AUDIT

### REPORTS

ESD Expert and voting member of the IEC/TC101 “electrostatics”, Eurostat offers on site audits and product characterisation..

#### 2.1. Site Audit

##### GOALS

**To highlight existing in-situ gaps**

with what is recommended through IEC 61340-5-1/2 international standard

**To analyse and understand**

any electrostatic issues in discussion with your technical representative

##### The site visit - Approx. 1 day

1 The site visit is a fact-finding visit in which our consultant surveys key parts of the site and the customer’s processes and procedures.

2 It is also an opportunity for you to highlight and discuss any particular areas of concern you may have.

For these reasons it is essential to make your on-site technical representative available to act as a guide and to be a technical support.

Electrostatic related measurements such as electrostatic field potential and resistance measurements are made where it is appropriate to check the status of equipment, processes, floors and other relevant items.

#### 2.2. Characterization

##### GOALS

**Define the Electrostatic features of your products**

with measurements performed in our laboratory to IEC standards.



##### Progress - delays on request

After estimating the time necessary to achieve your study (depends on the quantities and objectives of your demands), we will do some testing in our characterisation laboratory.

#### 2.3. Report

The report gives some relevant electrostatic information and explanation of key aspects where possible. It typically records: details of our consultant’s findings including the results of any measurements, conclusions and specific recommendations and a list of literature and relevant standards that might be required for reference and further reading material if applicable.



# 3. TECHNICAL SERVICE AND INSTALLATIONS



Our technical service center ensures installation, maintenance and calibration of equipment, together with repairs during the guarantee period.

Range verification and calibration of electronic equipment can also be carried out.

INSTALLATION

MAINTENANCE

REPAIR

CALIBRATION

VERIFICATION

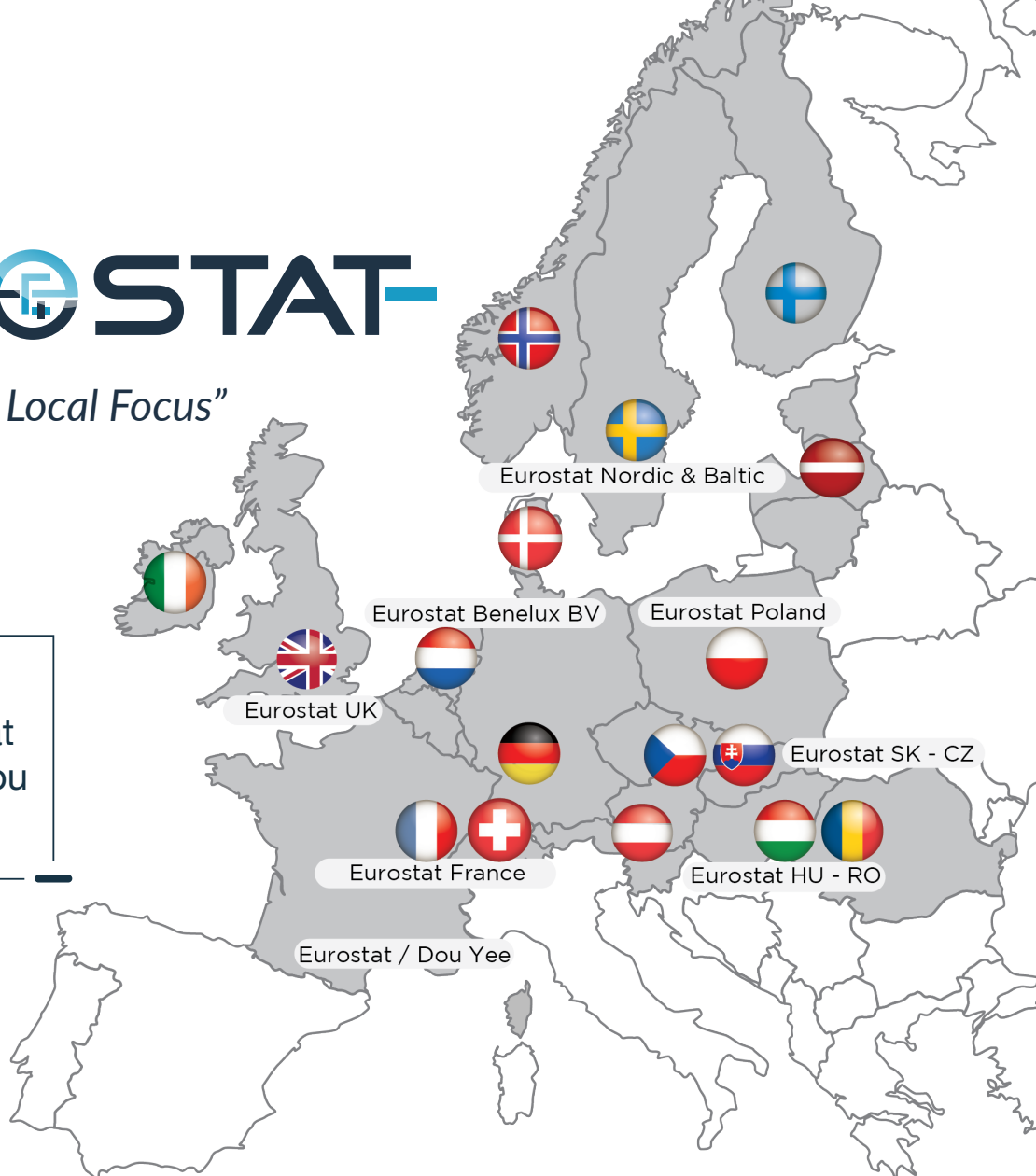


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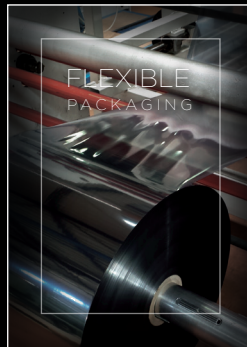
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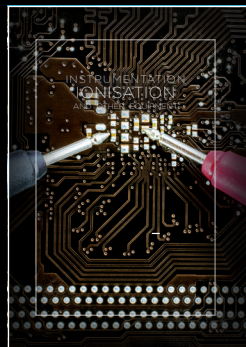
# The Eurostat offer



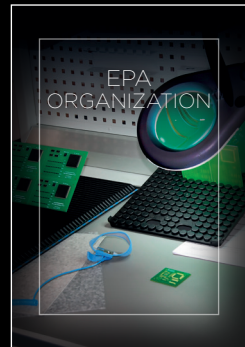
RIGID  
PACKAGING



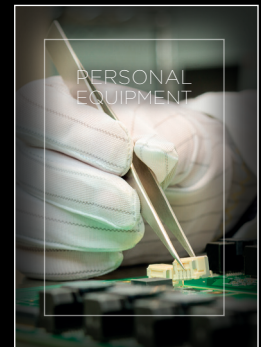
FLEXIBLE  
PACKAGING



INSTRUMENTATION  
& IONISATION



EPA  
ORGANIZATION



PERSONAL  
EQUIPMENT

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