

# FIT FOR JOB



Extract from our  
ESD assortment

ABEBA®

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



# ESD

# ELECTROSTATIC DISCHARGE

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Potential differences occur by friction or by contact and separation of two objects. A human body can be charged up to a voltage of 30,000 volts. An electrostatic discharge of less than 3000 volts will not be perceptible by the person involved. The majority of electronic components are sensitive to electrostatic discharges of only 5 to 30 volts and damage without any noticeable discharge.

An electrostatic discharge of a few tens of volts is enough to generate the explosion of certain solvents or chemicals. ESD protective measures are therefore essential to control the risks due to electrostatic charges.

This consists in particular of avoiding electrical charges and thus preventing sudden and dangerous discharges from the person to the sensitive component or the sensitive atmosphere (Atex Zones).

The most effective method of protection is the grounding of people by using ESD footwear in combination with a dissipative floor.

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According to EN 61340-5-1 footwear is classified as ESD dissipative footwear if the electrical resistance in the system human body - footwear - ground is less than 35 MOhm (workplace testing).

The ESD qualification according to the 61340-4-3 standard is carried out in the laboratory according to climatic classes 1 (12% relative humidity), climatic class 2 (25% relative humidity) and climatic class 3 (50% relative humidity).

After the shoes are pre-conditioned according to climate class, they are filled with metal balls and placed on a metal plate.

The electrical resistance in the shoe-to-metal-plate system must not exceed 100 MOhm.

The electrical resistance of ESD footwear is strongly influenced by the climatic conditions (relative humidity and temperature) and by factors such as dirt, floor covering, or the transversal resistance of the person.

It is therefore recommended that the user performs regular electrical resistance tests under real conditions.

In critical areas, the resistance of the ground must be such that the protective function of the shoe is not neutralised. The „walking test“ allows an exact evaluation of the footwear-floor system.

**WARNING:** : ESD shoes are not suitable for electricians or while working on sources with any electric voltage.







## DEFINITION

### ESD - Electrostatic Discharge

Electrostatic discharge is caused by an imbalance of potential on charged objects or people by contact or close proximity.

### ESDS

Electrostatic Discharge Sensitive Device

### EPA

Electrostatic Protected Area

Area where sensitive devices can be handled directly with minimum risk of electrostatic damage.

### Electrostatic charge

Is produced by frictional contact and separation of two materials.

### Resistance to ground (R<sub>g</sub>) EN 61340

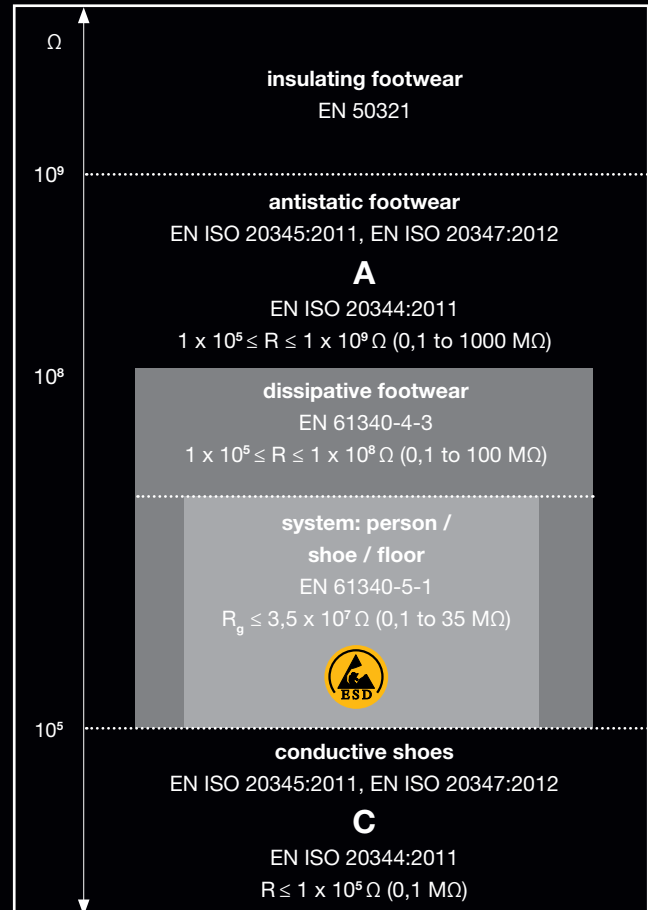
Is the resistance from a surface or an item within an EPA, measured with a suitable ohmmeter and test probe.

### Latent damage

Is the damage caused by ESD to sensitive devices, which has the effect of reducing components reliability without causing immediate failure.

## INFORMATION

Electrical resistance and protection against electrostatic phenomena. ESD-footwear as primary grounding in the system of person/ shoe/ floor



A and C: additional requirements of occupational- and safety shoes regarding electric property. R: electrical resistance. R<sub>g</sub>: ground resistance.

For the daily function testing of the shoes the use of test stations has been established. There the resistance of person and shoe is measured. Attention should be paid to the separate measuring of the feet.

### Electrical resistance

10 <sup>3</sup> Ohm =	0,001 MOhm =	1 kOhm
10 <sup>4</sup> Ohm =	0,01 MOhm =	10 kOhm
10 <sup>5</sup> Ohm =	0,1 MOhm =	100 kOhm
10 <sup>6</sup> Ohm =	1 MOhm =	1.000 kOhm
10 <sup>7</sup> Ohm =	10 MOhm	
10 <sup>8</sup> Ohm =	100 MOhm	
10 <sup>9</sup> Ohm =	1.000 MOhm =	1 GOhm
10 <sup>10</sup> Ohm =	10.000 MOhm =	10 GOhm
10 <sup>11</sup> Ohm =	100.000 MOhm =	100 GOhm
10 <sup>12</sup> Ohm =	1.000.000 MOhm =	1.000 GOhm



### ESD SUSCEPTIBLE

The symbol has been used since 1984 and denotes components and subassemblies that are ESD susceptible.



### ESD PROTECTIVE

The symbol was introduced in addition to symbol No. 1 in 1993 and denotes ESD protective products such as antistatic mats, trucks, clothing, protective covering, cartons, shoes, etc.



# CLIMATE CLASS 1

## CLIMATE CLASS I

All ABEBA ESD shoes are certified according to the European standard EN 61340-4-3 according to climatic class 1.

In general, the climate classes guarantee the electrostatic properties of the shoes. For their classification, the electrical measurements must be carried out under specific conditions, as shown in the following table.

Climate class	Pre-treatment	Conditioning	Measurement
1	96 (+10) h (40 +/- 3) °C RH < 15 %	96 (+10) h (23 +/- 2) °C (12 +/- 3) % RH	(23 +/- 2) °C (12 +/- 3) % RH
2		96 (+10) h (23 +/- 2) °C (25 +/- 3) % RH	(23 +/- 2) °C (25 +/- 3) % RH
3		48 (+ 5) h (23 +/- 2) °C (50 +/- 5) % RH	(23 +/- 2) °C (50 +/- 5) % RH

h = duration in hours, °C = temperature, % RH = relative humidity

The distinction between the various climate classes 1, 2 and 3 is mainly based on the relative humidity of the air in the environment during the control process. The relative humidity influences the electrostatic discharge capacity of the footwear during the test.

The certification test for climatic class 3 of the shoes is carried out in an environment with an air humidity of 50% and for climate class 2 a humidity of 25 %. For climatic class 1, the test must be passed with an air humidity of 12 %. All tests are performed at a temperature of 23°C.

Therefore, a shoe certified according to climate class 1 is the most suitable shoe to guarantee the electrostatic voltage dissipation capacity. The dissipation of electrostatic charges is guaranteed even in conditions of low air humidity and dry materials, thus avoiding sudden discharges.

However, all other environmental influences that may have an effect on electrostatic discharge, such as a more insulating floor or insulating deposits on outsoles, must also be taken into account.

Wearing footwear that is certified Climate Class 1 is highly recommended, not only in the chemical and electrical industries, when handling flammable liquids and gases, paints and varnishes, but also in classic sectors generating intense dust production, such as printing companies, mills and grain warehouses or forestry companies, where a static electricity discharge can generate an ignition or explosion.

### Technical Rules for Operational Safety (TRBS 2153 & ISO 20023:2018)

Section 7.1 of TRBS 2153 requires the wearing of dissipative footwear with a contact resistance of less than 100 megohms in hazardous areas. Our shoes meet this requirement according to EN 61340-4-3 (test with metal balls in the shoe on a metal plate) and EN 61340-5-1 (test with a person in the shoe on a metal plate).

## WALKING TEST

Practical experience has shown that merely testing the shoes' contact resistances will not ensure adequate employee protection from accumulating excessive charges. We would also recommend additionally the ESD qualification Walking test (as per EN 61340-4-5, limit < 100 V) for the shoe/Floor-system in the areas concerned.

### The following aspects need to be considered with dissipative shoes:

- Effective person grounding is only possible in combination with conductive floors.
- Dirt in the outer sole or dust deposits can generate an insulating layer.
- External climatic conditions (e.g. low air humidity) can have a negative effect on contact resistance.
- Orthopaedic insoles and orthopaedic designs must not impair the footwear's discharge capacity.



high ORIGINAL



Art. 37631



5001

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
 Size 36-42 | smooth leather white, perforated | heel patch leather | heel strap foldable, adjustable | wedge heel 45 mm | narrow fit | slip-resistant PU outsole

the ORIGINAL+



A<sup>o</sup>micro

37530

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
 Size 36-42 | microfibre black, perforated | heel patch microfibre | heel strap foldable, adjustable | slip-resistant TPU outsole



A<sup>o</sup>micro

37520

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
 Size 36-42 | microfibre white, perforated | heel patch microfibre | heel strap foldable, adjustable | slip-resistant TPU outsole



easy



37630

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
 Size 35-48 | smooth leather white, perforated | heel strap foldable, adjustable | replaceable Active Comfort insole (art. 352710) | slip-resistant TPU outsole



37631

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
 Size 35-48 | smooth leather black, perforated | heel strap foldable, adjustable | replaceable Active Comfort insole (art. 352710) | slip-resistant TPU outsole





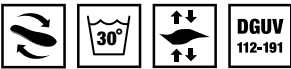


# DYNAMIC



**37329**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | knitted textile white | protection against splash water | heel strap non-foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole



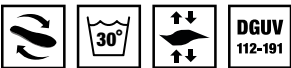
**37328**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | knitted textile anthracite | protection against splash water | heel strap non-foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole



**37327**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | knitted textile burgundy | protection against splash water | heel strap non-foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole



**37326**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | knitted textile light blue | protection against splash water | heel strap non-foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole



**37341**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | microfibre black/blue with **black breathable textile inlays** | heel strap non-foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole





**37310**



CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | smooth leather white with pattern | heel strap foldable, adjustable | replaceable Active Comfort insole (art. 352610) | slip-resistant TPU outsole





**01**   **37370**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-43 | microfibre white, perforated | lining with silver ions |  
 replaceable Active MediFit insole (art. 352630) | slip-resistant TPU  
 outsole



Art. 37370



**01** 

**37376**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-48 | knitted textile black | stretch white fabric | protection  
 against splash water | double elastic band fastening system |  
 replaceable Active MediFit insole (art. 352630) | slip-resistant  
 TPU outsole



**01** 

**37374**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-48 | knitted textile burgundy | stretch white fabric |  
 protection against splash water | double elastic band fastening  
 system | replaceable Active MediFit insole (art. 352630) |  
 slip-resistant TPU outsole



**01** 

**37375**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-48 | knitted textile anthracite | stretch white fabric |  
 protection against splash water | double elastic band fastening  
 system | replaceable Active MediFit insole (art. 352630) |  
 slip-resistant TPU outsole







# cushion



01

**32300**

CE, EN ISO 20347:2012 O1, SRA  
Size 35-47 | grained leather white, perforated | lining microfibre, breathable, moisture absorbing | replaceable insole (art. 3551) | slip-resistant PU outsole



01

**32310**

CE, EN ISO 20347:2012 O1, SRA  
Size 39-47 | grained leather black, perforated | lining microfibre, breathable, moisture absorbing | replaceable insole (art. 3551) | slip-resistant PU outsole



01

**32370**

CE, EN ISO 20347:2012 O1, SRA  
Size 35-47 | microfibre white | instep area with elastic band | integrated footbed | decontaminable | slip-resistant PU outsole



02

**32610**


CE, EN ISO 20347:2012 O2, SRA  
Size 35-47 | grained leather black | lining microfibre, breathable, moisture absorbing | replaceable insole (art. 3551) | slip-resistant PU outsole






# Arrow





**OB**  Size 36-47 **38200**

**OB**  Size 48-51 **38202**

CE, EN ISO 20347:2012 OB, A, FO, SRA  
smooth leather white | insole microfibre | lining microfibre, breathable, moisture absorbing | heel strap foldable, adjustable | slip-resistant PU outsole





**OB**  Size 36-47 **38210**

**OB**  Size 48-51 **38212**

CE, EN ISO 20347:2012 OB, A, FO, SRA  
smooth leather black | insole microfibre | lining microfibre, breathable, moisture absorbing | heel strap foldable, adjustable | slip-resistant PU outsole





**OB**  Size 36-47 **35600**

**OB**  Size 48-51 **35602**

CE, EN ISO 20347:2012 OB, A, FO, SRA  
smooth leather white, perforated | insole microfibre | lining microfibre, breathable, moisture absorbing | heel strap foldable, adjustable | slip-resistant PU outsole



**OB**  Size 36-47 **38600**

**OB**  Size 48-51 **38602**

CE, EN ISO 20347:2012 OB, A, FO, SRA  
smooth leather white, perforated | insole microfibre | lining microfibre, breathable, moisture absorbing | heel strap non-foldable, adjustable | padded instep with elastic band | slip-resistant PU outsole





# NATURE



**4080**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
Size 34-48 | smooth leather white | 2 instep straps, adjustable | velcro fastening | slip-resistant special rubber outsole



**4085**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
Size 34-48 | smooth leather black | 2 instep straps, adjustable | velcro fastening | slip-resistant special rubber outsole



**4086**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
Size 34-48 | velour blue | 2 instep straps, adjustable | buckle fastening | slip-resistant special rubber outsole



**4090**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | smooth leather white | heel strap non-foldable, adjustable | 2 instep straps, adjustable | velcro fastening | slip-resistant special rubber outsole



**4096**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | velour blue | heel strap non-foldable, adjustable | 2 instep straps, adjustable | buckle fastening | slip-resistant special rubber outsole



**4040**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | smooth leather white | heel strap non-foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant special rubber outsole



**4055**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | smooth leather black | heel strap non-foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant special rubber outsole



**4045**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | smooth leather dark blue, perforated | heel strap non-foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant special rubber outsole



**4050**

CE, EN ISO 20347:2012 OB, A, FO, SRC  
 Size 34-48 | smooth leather white, perforated | heel strap non-foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant special rubber outsole





# x-light



**7131141**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | smooth leather white | lining with silver ions | heel strap foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351710) | slip-resistant PU outsole



**7131142**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | smooth leather black | lining with silver ions | heel strap foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351710) | slip-resistant PU outsole



**7131135**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | smooth leather black | lining with silver ions | heel strap non-foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351710) | slip-resistant PU outsole



**7131130**

CE, EN ISO 20347:2012 OB, A, E, FO, SRC  
Size 35-48 | smooth leather white | lining with silver ions | heel strap non-foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351710) | slip-resistant PU outsole



**7131137**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | smooth leather black | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole







**7131132**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | smooth leather white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole





**02**   **7131129**

**02**   **7131128**

CE, EN ISO 20347:2012 O2, FO, SRC  
 Size 35-48 | microfibre black | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole

CE, EN ISO 20347:2012 O2, FO, SRC  
 Size 35-48 | microfibre white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole




**01**  **7131136**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-48 | smooth leather black **with grey breathable textile inlays** | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole




**01**  **7131131**

CE, EN ISO 20347:2012 O1, FO, SRC  
 Size 35-48 | smooth leather white **with grey breathable textile inlays** | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole





Art. 7131131







# x-light



**02**   **7131126**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre white | lining with silver ions | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



**02**   **7131127**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre black | lining with silver ions | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



**02**   **7131146**

CE, EN ISO 20347:2012 O2, FO, SRC\*  
Size 35-48 | microfibre black | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351610) | scuff resistant overcap | slip-resistant PU outsole





**01**  **7131156**

CE, EN ISO 20347:2012 O1, FO, SRC\*  
Size 35-48 | smooth leather black with **breathable textile inlays** | lining with silver ions | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



Art. 7131156



**02**   **7131147**

CE, EN ISO 20347:2012 O2, FO, SRC\*  
Size 35-48 | microfibre white | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351610) | scuff resistant overcap | slip-resistant PU outsole





**7131158**

CE, EN ISO 20347:2012 O1, FO, SRC\*  
Size 35-48 | smooth leather white with **breathable textile inlays** | lining with silver ions | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



*x-light*



**7131150**

CE, EN ISO 20347:2012 O1, FO, SRC  
Size 35-48 | velours microfibre black/neon orange | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



*A* micro

**7131124**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre-textile white | water-repellent | lining with silver ions | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



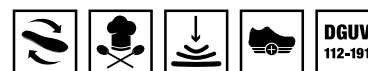
**7131138**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | smooth leather black | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole



**7131133**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | smooth leather white | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 351610) | slip-resistant PU outsole





# uni6



**01** **36795**

CE, EN ISO 20347:2012 O1, FO, SRC  
Size 35-48 | microfibre white | lining microfibre, breathable, moisture absorbing | instep area with velcro fastening | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole



**02** **36740**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole



**01** **36721**

CE, EN ISO 20347:2012 O1, FO, SRC  
Size 35-48 | velour black with **breathable textile inlays** | lining with silver ions | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole



**02** **36728**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre-textile black with pattern | water-repellent | lining with silver ions | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole



**02** **36729**

CE, EN ISO 20347:2012 O2, FO, SRC  
Size 35-48 | microfibre-textile white with pattern | water-repellent | lining with silver ions | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole





02



**36773**

CE, EN ISO 20347:2012 O2, FO, SRC

Size 35-48 | knitted textile blue | protection against splash water | lining with silver ions | replaceable Active Comfort insole (art. 352510) | slip-resistant TPU outsole



Art. 36773



NEW



36772



36775



36774



36776


**02**

**36787**

CE, EN ISO 20347:2012 O2, FO, SRC  
 Size 35-48 | microfibre white/black | lining with silver ions |  
 replaceable Active Comfort insole (art. 352510) | slip-resistant  
 TPU outsole


**02**

**36786**

CE, EN ISO 20347:2012 O2, FO, SRC  
 Size 35-48 | microfibre white/blue | lining with silver ions |  
 replaceable Active Comfort insole (art. 352510) | slip-resistant TPU  
 outsole


**02**

**36761**

CE, EN ISO 20347:2012 O2, FO, SRC  
 Size 35-48 | functional leather black with honeycomb pattern |  
 water-repellent | scratch-resistant | lining with silver ions | replace-  
 able Active Comfort insole (art. 352510) | slip-resistant TPU outsole



Reflexor



36912



36902

CE, EN ISO 20347:2012 OB, A, E, SRB  
 Size 36-42 | smooth leather white | lining microfibre, breathable, moisture absorbing | triple velcro fastening | 2 replaceable Reflexor® insoles (art. 3585/3567) | slip-resistant PU outsole



35710

CE, EN ISO 20347:2012 O1, SRB  
 Size 40-46 | smooth leather black | lining microfibre, breathable, moisture absorbing | 2 replaceable Reflexor® insoles (art. 3566/3570) | slip-resistant PU outsole



Reflexor  
COMFORT



36872

CE, EN ISO 20347:2012 OB, A, E, SRB  
 Size 36-43 | velours black | lining microfibre, breathable, moisture absorbing | heel strap non-foldable, adjustable | instep area with elastic band | replaceable Reflexor® insole (art. 3572) | slip-resistant PU outsole



CLEAN ROOM



3620

CE, EN ISO 20347:2012 O1, SRA  
 Size 35-47 | microfibre white | fixed gaitor, cleanroom textile

AUTO-CLAVABLE



39620

CE, EN ISO 20347:2012 OB, A, E, SRC  
 Double sizes\* 35/36 - 45/46 | special material green | heel strap foldable, adjustable | autoclavable | slip-resistant outsole







# MANAGER



**3120**

Size 39-47 | calf leather black | lining microfibre, breathable, moisture absorbing | top layer microfibre | ESD dissipative leather outsole

# BUSINESS LADY



**3940**

Size 36-42 | smooth leather black | lining microfibre, moisture absorbing | heel 60 mm | ESD dissipative outsole

# BUSINESS MEN



**32450**

CE, EN ISO 20347:2012 O1, SRB  
Size 40-47 | smooth leather black | lining microfibre, breathable, moisture absorbing | insole microfibre | slip-resistant ESD dissipative rubber outsole

# SERVICE



**300219**

CE, EN ISO 20347:2012 O1, FO, SRC  
Size 35-43 | microfibre black in leather optic | lining microfibre, breathable, moisture absorbing | instep area with lacing | slip-resistant PU/rubber outsole



**300119**

CE, EN ISO 20347:2012 O1, FO, SRC  
Size 35-43 | microfibre black in leather optic | lining microfibre, breathable, moisture absorbing | instep area with elastic band | slip-resistant PU/rubber outsole





# SAFETY SHOES





# Classic



**31000**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
Size 36-46 | grained leather white | lining microfibre, breathable, moisture absorbing | heel patch microfibre | heel strap foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant PU outsole



**31010**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
Size 36-46 | grained leather black | lining microfibre, breathable, moisture absorbing | heel patch microfibre | heel strap foldable, adjustable | instep strap adjustable | buckle fastening | slip-resistant PU outsole



Art. 7131036



**7131036**

CE, EN ISO 20345:2011 S1, SRC  
Size 35-48 | smooth leather black **with grey breathable textile inlays** | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole







# X-light



7131042



**7131041**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
 Size 35-48 | smooth leather white | lining with silver ions | heel strap foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351720) | slip-resistant PU outsole



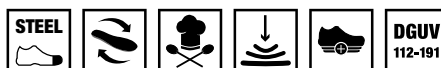
**7131035**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
 Size 35-48 | smooth leather black | lining with silver ions | heel strap foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351720) | slip-resistant PU outsole



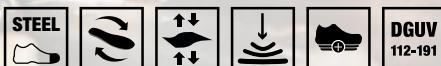
**7131030**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
 Size 35-48 | smooth leather white | lining with silver ions | heel strap foldable, adjustable | instep area with elastic band | replaceable Active Comfort insole (art. 351720) | slip-resistant PU outsole



**7131031**

CE, EN ISO 20345:2011 S1, SRC  
 Size 35-48 | smooth leather white **with grey breathable textile inlays** | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole





# x-light



S3



A<sup>micro</sup>

7131827

CE, EN ISO 20345:2011 S3, SRC  
Size 35-48 | microfibre/ textile black | water-repellent | lining with silver ions | replaceable Active Comfort insole (art. 351620) | metal free penetration resistance | slip-resistant PU outsole



DGUV  
112-191

NEW

NEW



S1



7131058

CE, EN ISO 20345:2011 S1, SRC  
Size 35-48 | smooth leather white with **breathable textile inlays** | lining with silver ions | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



DGUV  
112-191

NEW



S1



7131056

CE, EN ISO 20345:2011 S1, SRC  
Size 35-48 | smooth leather black with **breathable textile inlays** | lining with silver ions | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



DGUV  
112-191



**S2**



*A* micro

**7131047**

**S2**



*A* micro

**7131046**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | microfibre white | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351620) | scuff resistant overcap | slip-resistant PU outsole

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | microfibre black | lining with silver ions | double velcro fastening | replaceable Active Comfort insole (art. 351620) | scuff resistant overcap | slip-resistant PU outsole



**S1**



**7131050**

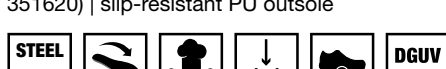
**S2**



**7131032**

CE, EN ISO 20345:2011 S1, SRC  
 Size 35-48 | velours microfibre black/neon orange | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | smooth leather white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



**S2**



**7131037**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | smooth leather black | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole







# x-light



**7131038**

CE, EN ISO 20345:2011 S2, SRC  
Size 35-48 | smooth leather black | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



**7131033**

CE, EN ISO 20345:2011 S2, SRC  
Size 35-48 | smooth leather white | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



**A** micro

**7131029**

CE, EN ISO 20345:2011 S2, SRC  
Size 35-48 | microfibre black | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



**A** micro

**7131028**

CE, EN ISO 20345:2011 S2, SRC  
Size 35-48 | microfibre white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 351620) | slip-resistant PU outsole



# uni6



**31629**

CE, EN ISO 20345:2011 S3, SRC  
Size 35-48 | microfibre/textile white with pattern | water-repellent lining with silver ions | replaceable Active Comfort insole (art. 352520) | metal free penetration resistance | slip-resistant TPU outsole



**31628**

CE, EN ISO 20345:2011 S3, SRC  
Size 35-48 | microfibre/textile black with pattern | water-repellent lining with silver ions | replaceable Active Comfort insole (art. 352520) | metal free penetration resistance | slip-resistant TPU outsole





**S2**



**31775**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | knitted textile anthracite | protection against splash water | lining with silver ions | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole



Art. 31775

31772

31773

31774

31676 in S3



**S2**



**A** micro

**31780**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | microfibre white | lining with silver ions | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole





**S1**  

**31795**

CE, EN ISO 20345:2011 S1, SRC  
 Size 35-48 | microfibre white | lining microfibre, breathable, moisture absorbing | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole



**S2**  

**31740**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | microfibre white | lining with silver ions | instep area with elastic band | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole



**S1** 

**31762**

CE, EN ISO 20345:2011 S1, SRC  
 Size 35-48 | functional leather blue with honeycomb pattern | water-repellent | scratch-resistant | lining with silver ions | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole



**S3** 

**31765**

CE, EN ISO 20345:2011 S3, SRC  
 Size 35-48 | functional leather black with honeycomb pattern | water-repellent | scratch-resistant | lining with silver ions | replaceable Active Comfort insole (art. 352520) | metal free penetration resistance | slip-resistant TPU outsole



**S2** 

**31761**

CE, EN ISO 20345:2011 S2, SRC  
 Size 35-48 | functional leather black with honeycomb pattern | water-repellent | scratch-resistant | lining with silver ions | replaceable Active Comfort insole (art. 352520) | slip-resistant TPU outsole



NEW



S1P

32283

CE, EN ISO 20345:2011 S1P, SRC  
 Size 36-52 | Cordura® Textile yellow/green with dot pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | double velcro fastening | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole



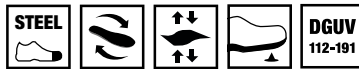
NEW



S1P

32282

CE, EN ISO 20345:2011 S1P, SRC  
 Size 36-48 | Cordura® Textile blue with dot pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | double velcro fastening | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole



NEW



S3

32251

CE, EN ISO 20345:2011 S3, SRC  
 Size 36-52 | Cordura® Textile yellow/green with dot pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole



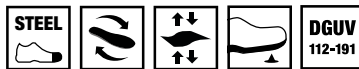
NEW



S3

32252

CE, EN ISO 20345:2011 S3, SRC  
 Size 36-48 | Cordura® Textile blue with dot pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole



NEW



S3

32257

CE, EN ISO 20345:2011 S3, SRC  
 Size 36-48 | Cordura® Textile orange with with dot pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole



NEW



S3

32238



CE, EN ISO 20345:2011 S3, SRC  
 Size 36-48 | Cordura® Textile red/black with warp pattern | water-, abrasion- and tear-resistant | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 352320) | metal free penetration resistance | slip-resistant PU/PU outsole







# anatom



**SB**   **32120**

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
Size 36-52 | microfibre white | lining with silver ions | heel strap foldable, adjustable | instep strap adjustable, with elastic band | replaceable Active Comfort insole (art. 352420) | slip-resistant PU outsole



**SB**   **32125**


CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
Size 36-52 | microfibre black | lining with silver ions | heel strap foldable, adjustable | instep strap adjustable, with elastic band | replaceable Active Comfort insole (art. 352420) | slip-resistant PU outsole



**S1**  **32189**



CE, EN ISO 20345:2011 S1, SRC  
Size 36-52 | velour black **with breathable textile inlays** | lining with silver ions | instep strap adjustable | reflective stripes | replaceable Active Comfort insole (art. 352320) | slip-resistant PU outsole



**S1**   **2616**



CE, EN ISO 20345:2011 S1, SRC  
Size 36-50 | microfibre white, **perforated** | lining with silver ions | double velcro fastening | reflective stripes | replaceable Active Comfort insole (art. 352320) | slip-resistant PU outsole



**S2**   **32130**

CE, EN ISO 20345:2011 S2, SRC  
Size 36-52 | microfibre white | lining with silver ions | instep strap adjustable, with elastic band | replaceable Active Comfort insole (art. 352320) | slip-resistant PU outsole



**S1**   **2626**

CE, EN ISO 20345:2011 S1, SRC  
Size 36-52 | microfibre white **with breathable textile inlays** | lining with silver ions | reflective stripes | replaceable Active Comfort insole (art. 352320) | slip-resistant PU outsole





A<sup>®</sup> micro

34555

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
 Size 36-48 | microfibre white | scratch-resistant coating in toe area | lining with silver ions | heel strap foldable, adjustable | instep strap adjustable, with elastic bank | replaceable Active Comfort insole (art. 352020) | **aluminium toe-cap** | slip-resistant TPU outsole



A<sup>®</sup> micro

34556

CE, EN ISO 20345:2011 SB, A, E, FO, SRC  
 Size 36-48 | microfibre black | scratch-resistant coating in toe area | lining with silver ions | heel strap foldable, adjustable | instep strap adjustable, with elastic bank | replaceable Active Comfort insole (art. 352020) | **aluminium toe-cap** | slip-resistant TPU outsole



34581

CE, EN ISO 20345:2011 S1, SRC  
 Size 36-48 | velour black/blue | lining with silver ions | replaceable Active Comfort insole (art. 351920) | **aluminium toe-cap** | slip-resistant TPU outsole



33230

CE, EN ISO 20345:2011 S2, SRA  
 Size 36-48 | smooth leather black | lining microfibre, breathable, moisture absorbing | slip-resistant ESD dissipative rubber outsole



33240

CE, EN ISO 20345:2011 S2, SRA  
 Size 36-48 | smooth leather black | lining microfibre, breathable, moisture absorbing | slip-resistant ESD dissipative rubber outsole







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