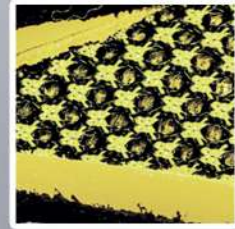


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SINCE **1923** WE PROTECT
YOUR LABOUR



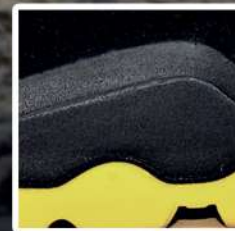
DURABLE COMFORT

FLEX WAVE UPPER PROVIDES
BREATHABILITY AND DURABILITY



STRONG FOUNDATION

WIDE TOE CUP COMFORTABLE
TO FIT FOR POWERFUL MOVEMENTS



ULTIMATE STABILITY

MAXIMUM SLIP RESISTANCE
PROVIDES SECURE WALKING



Breathable, wear-resistant lining material Mesh



Steel Toe Cap with 200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Metal midsole
0% penetration



Heel energy absorption
Double density Pu-Pu

Model: 162 Black

SE/2M0162



STANDARD EN 20345:2011 S1P or S3

Size available: 36-47



Breathable, wear-resistant lining material Mesh



Steel Toe Cap with 200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Metal midsole
0% penetration



Heel energy absorption
Double density Pu-Pu

Model: 112 Black

SE/2M0112



STANDARD EN 20345:2011 S1P or S3

Size available: 36-47

Work Shoes

Model: 182 Black

SE/2M0182



STANDARD EN 20345:2011 S1P or S3

Size available: 36-47



Breathable, wear-resistant lining material Mesh



Steel Toe Cap with 200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Metal midsole
0% penetration



Heel energy absorption
Double density Pu-Pu

Model: 212 Black

SE/2C212(g)/3



STANDARD EN 20345:2011 S3

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with
200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Metal midsole
0% penetration



Water repellent upper



Heel energy absorption
Double density Pu-Pu

Model 318

STANDARD EN 20345:2011 S3



Flexible Structure

Flex wave upper provides breathability and durability



Impact Protection

Aluminium toe cup with 200 Joules impact protection



Ultimate Stability

Maximum slip resistance provides secure walking

Performance Shoes

Model: 368

GH(bl)AC0368(g)/3



STANDARD EN 20345:2011 S3

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Water repellent upper

Model: 318

GH(bl)AC0318(g)/3



STANDARD EN 20345:2011 S3

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Water repellent upper

Performance Shoes



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Water repellent upper

Model: 368 Brown

CH(br)/AC0368(g)/3



STANDARD EN 20345:2011 S3

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Water repellent upper

Model: 318 Brown

CH(br)/AC0318(g)/3



STANDARD EN 20345:2011 S3

Size available: 38-47

Performance Shoes

Model: 367

SD/AC0367(yel)



STANDARD EN 20345:2011 S1P

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Light weight

Model: 315

SD/AC0315(yel)



STANDARD EN 20345:2011 S1P

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Light weight



Breathable, wear-resistant lining material Mesh



Aluminium toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Metal midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Water repellent upper

Model: 312

SE/AM0312(g)/3



STANDARD EN 20345:2011 S3

Size available: 38-47

Model 315



Luxury Comfort

Wide toe cup comfortable to fit for powerful movements



Flexible Structure

Flex wave upper provides breathability and durability



Ultimate Stability

Maximum slip resistance provides secure walking

Energy Shoes

Model: 170 Black

KPU(g)/2C0170(g)(black)



STANDARD EN 20345:2011 S1P

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Fiberglass toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Fresh feet all day long

Model: 170 Red

KPU(red)/2C0170(red)



STANDARD EN 20345:2011 S1P

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Fiberglass toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Fresh feet all day long

Energy Shoes



Breathable, wear-resistant lining material Mesh



Fiberglass toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Fresh feet all day long

Model: 170 Blue

KPU(blue)/2C0170(blue)



STANDARD EN 20345:2011 S1P

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Fiberglass toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Fresh feet all day long

Model: 170 Yellow

KPU(yel)/2C0170(yel)



STANDARD EN 20345:2011 S1P

Size available: 37-46

Energy Shoes

Model: 169

SD/MC0169(g)



STANDARD EN 20345:2011 S1P

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Fiberglass toe cup with 200 Joules impact protection



Oil and fuel resistant sole



SRC anti-slip protection



Antistatic protection



Kevlar midsole for 0% penetration



Heel energy absorption Double density Pu-Pu



Fresh feet all day long

Model 367



Luxury Comfort

Wide toe cup comfortable to fit for powerful movements



Flexible Structure

Flex wave upper provides breathability and durability



Ultimate Stability

Maximum slip resistance provides secure walking

Airport Shoes



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Water repellent upper



SRC Slip resistant
Oil resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Non metal shoe

Model: 217 Black

GH(bl)/2C0217(g)/3



100% Metal Free - Security friendly shoes

STANDARD EN 20345:2011 S3

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Water repellent upper



SRC Slip resistant
Oil resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Non metal shoe

Model: 217 Brown

CH(br)/2C0217(g)/3



100% Metal Free - Security friendly shoes

STANDARD EN 20345:2011 S3 SRC

Size available: 37-46

Executive Shoes

Model: 111 Brown

CH/2C0111/3



STANDARD EN 20345:2011 S3

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Water repellent upper

Model: 111 Black

CH/2C0111/3



STANDARD EN 20345:2011 S3

Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Oil resistant



SRC Slip resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Water repellent upper

Foodstuff Shoes



Breathable, wear-resistant lining material Mesh



Steel Toe Cap with 200 Joules impact protection



Water repellent upper



Slip resistant
Oil resistant



Antistatic



Metal midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Microfiber upper

Model: 112 White

MF/2M0112



STANDARD EN 20345:2011 S3

Size available: 38-47



Breathable, wear-resistant lining material Mesh



Steel Toe Cap with 200 Joules impact protection



Water repellent upper



Slip resistant
Oil resistant



Antistatic



Metal midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Microfiber upper

Model: 162 White

MF/2M0162



STANDARD EN 20345:2011 S3

Size available: 37-46

HRO Hi Shoes

Model: 413 HI HRO

A413c2



Heat resistant sole up to **300 C**
STANDARD EN 20345 S3
Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Water repellent upper



SRC Slip resistant
Oil resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Heat resistant sole

Model: 414 HI HRO

A414c2



Heat resistant sole up to **300 C**
STANDARD EN 20345 S3
Size available: 37-46



Breathable, wear-resistant lining material Mesh



Composite Toe Cap with 200 Joules impact protection



Water repellent upper



SRC Slip resistant
Oil resistant



Antistatic



Kevlar midsole
0% penetration



Heel energy absorption
Double density Pu-Pu



Heat resistant sole

Key points of the standard for safety footwear

EN 20345:2011

Sole

The sole must offer energy absorption at seat area.

The sole must be slip resistant as per EN 20345:2011 standard

Resistance of the rear section to abrasion (support zone)

In the laboratory test, no hole must appear before the following number of cycles have been completed:

51,200 cycles when dry
25,600 cycles when wet

Front area of safety shoe

Toe cup must be installed for S1, S2 or S3 category shoes:
The toe cup must be validated for protection of 200 J impact

Anti-penetration inserts

The midsole must offer protection against penetration.

At 1100N, the midsole must not show any signs of penetration

Height of the cleats

Height of the cleats on the soles for S1/S2 or S3 category shoes:
The cleats must be over 2.5 mm deep



Slip resistance ratings

Footwear that has passed tests for slip resistance will also have one of the following codes:

SRA Tested on ceramic tile wetted with sodium lauryl sulphate (a diluted soap solution)

SRB Tested on steel with glycerol

SRC Tested under SRA and SRB conditions

Marking on the outsoles:

The claims marked on the outsoles must correspond to a function validated by a normative test:

"Oil resistance"

The sole must comply with EN requirements that defines resistance to fuel and oil.

"Antistatic"

The shoe must comply with EN requirements for antistatic requirements of the standard.

"Acid resistance"

The shoe must be tested according to the EN 13832-1 standard, in line with the requirements in paragraphs § 6.2.2.3 (deterioration tests).

"Heat Resistant Outsole «HRO»"

The outsole must comply with the requirements of this additional safety claim as per EN standard.

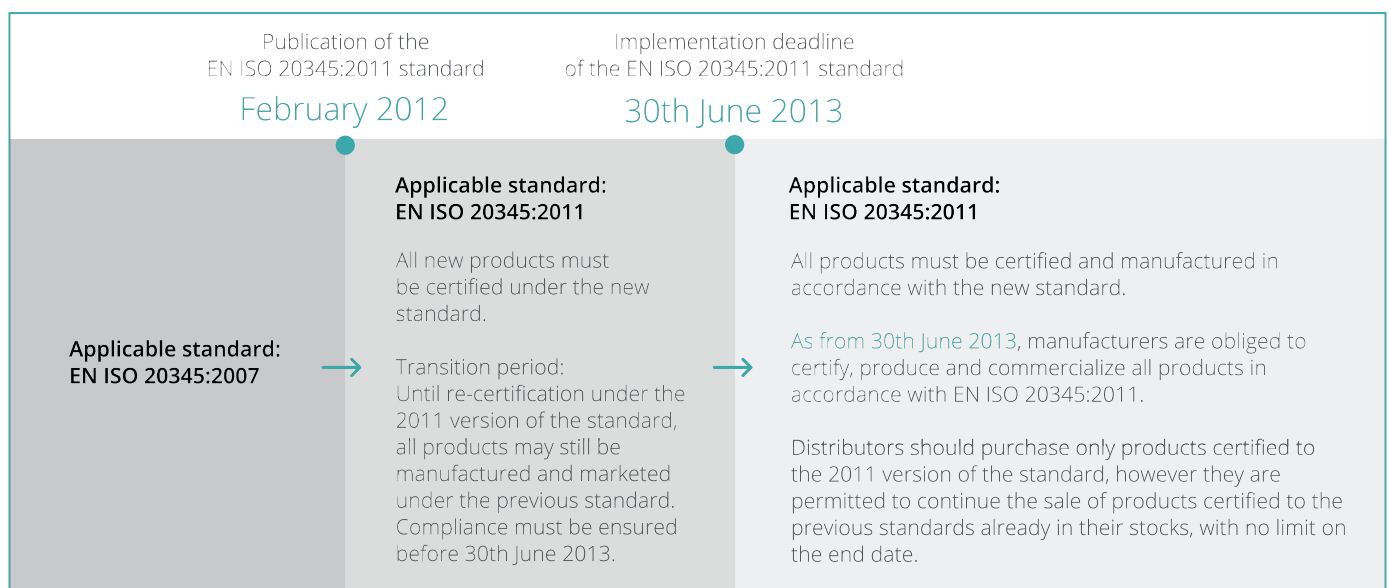
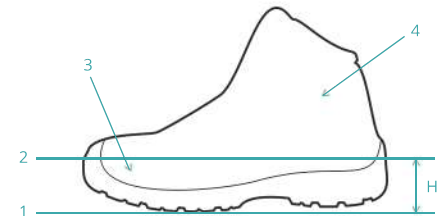
EN 20345:2011

1. Recertification requirement: New legislation requires the recertification, before 30th June 2013, of all products certified under any previous version of the standard. This is a new requirement, as at the time of the previous upgrade to the standard (from the 2004 version to the 2007 version), recertification was not mandatory.

2. Removal of the I marking (Insulating): No longer possible to certify electrical insulating footwear under EN ISO 20345:2011 standard. Electrically insulating shoes must fulfill EN 50321 standard.

3. Resistance to fuel oil (FO): The FO is no longer a fundamental requirement, but an additional requirement.

4. A new category, SBH: Creation of a new category for «hybrid footwear».

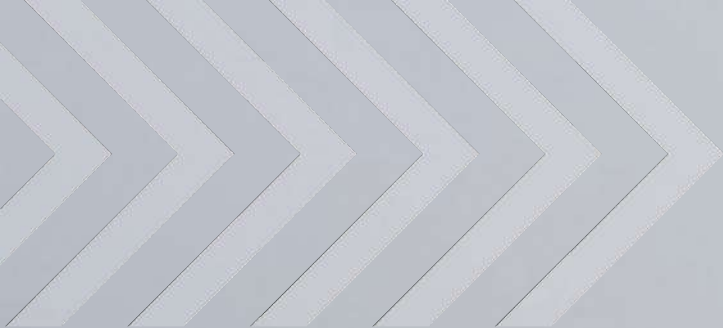


Category	EN ISO 20345 requirements
SB	Basic requirements for safety footwear with a toe cap resistant to an impact of 200 Joules
S1	Basic requirements + - Closed heel area - Energy absorption at seat area - Antistatic properties - Resistance to fuel and oil
S1P	S1 + - Penetration resistance (P)
S2	S1 + - Water repellant upper
S3	S2 + - Penetration resistance - Cleated outsole

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