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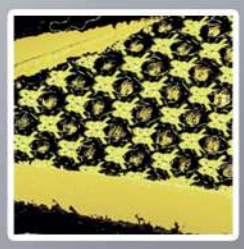
TALAN

SINCE 1923

WE PROTECT
YOUR LABOUR



DURABLE COMFORT

FLEX WAVE UPER PROVIDES
BREATHABILITY AND DURABILITY

STRONG FOUNDATION

WIDE TOE CUP COMFORTABLE
TO FIT FOR POWERFUL MOVEMENTS

ULTIMATE STABILITY

MAXIMUM SLIP RESISTANCE
PROVIDES SECURE WALKING

TALAN SINCE 1923 WE PROTECT YOUR LABOUR

Work Shoes

- 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

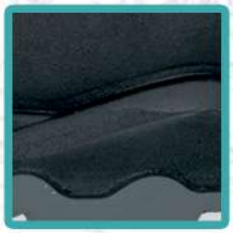
STANDARD EN 20345:2011 S3

Flexible Structure

Flex wave uper 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

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
- 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 uper 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

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Model: 169

SD/MC0169(g)

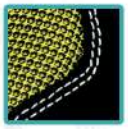
STANDARD EN 20345:2011 S1P

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 uper provides breathability and durability

Ultimate Stability
Maximum slip resistance provides secure walking

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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
- 300 C⁰ 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
- 300 C⁰ 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 thw following codes:

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

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.

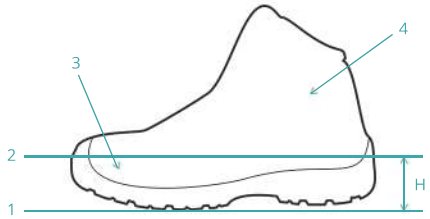
EN 20345:2011

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 fullfill EN 50321 standard.

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

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



Publication of the EN ISO 20345:2011 standard	Implementation deadline of the EN ISO 20345:2011 standard	
February 2012	30th June 2013	
Applicable standard: EN ISO 20345:2007 →	**Applicable standard: EN ISO 20345:2011** All new products must be certified under the new standard. Transition period: Until re-certification under the 2011 version of the standard, all products may still be manufactured and marketed under the previous standard. Compliance must be ensured before 30th June 2013. →	**Applicable standard: EN ISO 20345:2011** All products must be certified and manufactured in accordance with the new standard. As from 30th June 2013, manufacturers are obliged to certify, produce and commercialize all products in accordance with EN ISO 20345:2011. Distributors should purchase only products certified to the 2011 version of the standard, however they are permitted to continue the sale of products certified to the previous standards already in their stocks, with no limit on the end date.

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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