

# MARS-EH SB

#### EH-rated, high-cut puncture and slip resistant safety shoe

Pull-up Leather Upper Lining Mesh Footbed SJ foam footbed Midsole Anti-puncture Textile PU/TPU Outsole Composite Toecap Safety standard SB / E, FO, EH, SRC, P EU 36-47 / UK 3.5-12.0 Size range US 4.0-13.0 / CM 23.5-31.0 0.741 kg Sample weight EN ISO 20345:2011 Norms ASTM F2413:2018

























## Composite toecap

Metalfree and lightweight, no thermal or electrical conductivity



## Water resistant Upper (WRU)

Prevents penetration of water if not permanently exposed to high levels.



## SJ Flex

Metalfree puncture resistant material, which is lighter and more flexible than steel. The material is not thermal conductive. Covers 100% of the surface of the last bottom.



# Electrical hazard (EH)

Electrical hazard (EH) rated safety shoes have nonconductive outsoles. As a secondary source of protection they reduce the potential for electric shocks under dry conditions.



# Metal free

Metal free safety shoes are in general lighter than regular safety shoes. They are also very beneficial for professionals who have to pass through metal detectors several times a day.





#### **Industries:**

Automotive, Chemical, Construction, Logistics, Mining, Oil & Gas, Industry

#### **Environments:**

Dry environment, Uneven surfaces, Wet environment

# **Maintenance instructions:**

To extend the life of your shoes, we recommend to clean them regularly and to protect them with adequate products. Do not dry your shoes on a radiator, nor nearby a heat source.

	Description	Measure unit	Result	EN ISO 20345
Upper	Pull-up Leather			
	Upper: permeability to water vapor	mg/cm²/h	2.0	≥ 0.8
	Upper: water vapor coefficient	mg/cm²	16.3	≥ 15
Lining	Mesh			
	Lining: permeability to water vapor	mg/cm²/h	51.9	≥ 2
	Lining: water vapor coefficient	mg/cm²	415.5	≥ 20
Footbed	SJ foam footbed			
	Footbed: abrasion resistance	cycles	400	≥ 400
Outsole	PU/TPU			
	Outsole abrasion resistance (volume loss)	mm³	41.8	≤ 150
	Outsole slip resistance SRA: heel	friction	0.37	≥ 0.28
	Outsole slip resistance SRA: flat	friction	0.32	≥ 0.32
	Outsole slip resistance SRB: heel	friction	0.16	≥ 0.13
	Outsole slip resistance SRB: flat	friction	0.18	≥ 0.18
	Antistatic value	MegaOhm	NA	0.1 - 1000
	ESD value	MegaOhm	NA	0.1 - 100
	Heel energy absorption	J	35	≥ 20
Тоесар	Composite			
	Impact resistance toecap (clearance after impact 100J)	mm	NA	NA
	Compression resistance toecap (clearance after compression 10kN)	mm	NA	NA
	Impact resistance toecap (clearance after impact 200J)	mm	16.5	≥ 14
	Compression resistance toecap (clearance after compression 15kN)	mm	21.0	≥ 14

Sample size: 42

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