



Heavy

MARS-EH SB

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

Upper	Pull-up Leather
Lining	Mesh
Footbed	SJ foam footbed
Midsole	Textile
Outsole	PU/TPU
Toecap	Composite
Safety standard	SB / E, FO, EH, SRC, P
Size range	EU 36-47 / UK 3.5-12.0 / US 4.0-13.0 JPN 22.5-31 / KOR 235-310
Sample weight	0.741 kg
Norms	EN ISO 20345:2011 ASTM F2413:2018



858



Composite toecap

Metalfree and lightweight, no thermal or electrical conductivity



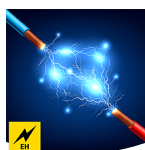
Water resistant Upper (WRU)

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



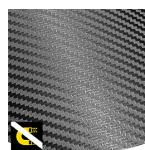
SJ Flex

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/cm ² /h	2.0	≥ 0.8
	Upper: water vapor coefficient	mg/cm ²	16.3	≥ 15
Lining	Mesh			
	Lining: permeability to water vapor	mg/cm ² /h	51.9	≥ 2
	Lining: water vapor coefficient	mg/cm ²	415.5	≥ 20
Footbed	SJ foam footbed			
	Footbed: abrasion resistance (dry/wet) (cycles)	cycles	25600/12800	25600/12800
Outsole	PU/TPU			
	Outsole abrasion resistance (volume loss)	mm ³	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	N/A	0.1 - 1000
	ESD value	MegaOhm	N/A	0.1 - 100
	Heel energy absorption	J	35	≥ 20
Toecap	Composite			
	Impact resistance toecap (clearance after impact 100J)	mm	N/A	N/A
	Compression resistance toecap (clearance after compression 10kN)	mm	N/A	N/A
	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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