PRODUCT SHEET

MARSALA UK INTER-MET

Prod. Ref.	26830-001
Safety cat.	S3 M HI CI HRO SRC
Range of sizes	39 - 48 (6 - 13)
Weight (sz. 8)	745 g
Shape	B
Widht	11

Description: Black water repellent printed leather ankle boot, **SANY-DRY®** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: **Internal preformed metatarsal protection - 100 J**, made of expanded, closed cell, strong material, able to absorb and equally distribute the impact energy. Extremely comfortable, light and flexible, thanks to the design with channels, it perfectly fits the foot's shape. No added bulk affecting the look of the footwear. No fatigue for the user! **EVANIT** footbed, made of EVA and nitrile special compound, with high bearing capacity and variable thickness. Thermoformed, punched and coated with highly breathable fabric. Antistatic thanks to a specific treatment on the surface and to seams made of conductive yarns. **ANTI TORSION SUPPORT** made of polycarbonate and fibreglass conveniently placed between heel and sole, which provides support and protection of the plantar arch, thus preventing harmful bendings and/or unwilled torsion. Outsole resistant to +300°C (1 minute contact). Perfumed sole. Quick release system **CLIP-DUCK®.** Polyurethane toe cap protection

Suggested uses: footwear for mechanical industry

Care and maintenance: Clean after each use and dry off away from direct heat. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water

MATERIALS / ACCESSORIES

Complete shoe	**metatarsal protection**
	Toe cap: non metallic **TOP RETURN** toe cap, impact resistant until 200 J
	and compression resistant until 1500 kg
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, **Zero Perforation**
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges
	Heat insulation
	Cold insulation
	Energy absorption system
Upper	Black water repellent printed leather
	thickness 1,6/1,8 mm
Vamp	Felt, breathable, colour dark grey
lining	Thickness 1,2 mm
Quarter	**SANY-DRY®**, antibacterial, breathable, abrasion resistant, colour black
lining	thickness 1,2 mm
Sole	Polyurethane/Nitrile rubber, antistatic, resistant to high temperatures, directly injected in the upper:
	Outsole: black nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
6.2.6.2	Shock resistant (free high after shock)	mm	41	≥ 40
5.3.2.3	Shock resistance (clearance after shock)	mm	15,5	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	15	≥ 14
6.2.1	Penetration resistance	N	To 1100 N No Perforation	≥ 1100
6.2.2.2	Electric resistance			
	- wet	MΩ	21,2	≥ 0.1
	- dry	MΩ	555	≤ 1000
6.2.3.1	Heat insulation (temp. increase after 30' at **150** °C)	°C	17	≤ 22
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	8,1	≤ 10
6.2.4	Shock absorption	J	30	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	> 2,6	≥ 0,8
	Permeability coefficient	mg/cmq	> 28,5	> 15
6.3.1	Water absorption		15%	≤ 30%
	Water penetration		0,0 g	≤ 0,2 g
5.5.3	Water vapour permeability	mg/cmq h	> 4,7	≥ 2
	Permeability coefficient	mg/cmq	> 40,6	≥ 20
5.5.3	Water vapour permeability	mg/cmq h	> 10,3	≥ 2
	Permeability coefficient	mg/cmq	> 82,8	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm³	90	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	1,5	≤ 4
5.8.6	Interlayer bond strength	N/m	4,4	≥ 3

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resistant and heat resistant.	6.4.4	Hot resistance (300 °C)	----	**any melting**	any melting
Midsole: black polyurethane, low density, comfortable and anti-shock.	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**2,5**	≤ 12
Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat		**0,42**	≥ 0,32
		SRA : ceramic + detergent solution – heel (contact angle 7°)		**0,33**	≥ 0,28
		SRB : steel + glycerol – flat		**0,22**	≥ 0,18
		SRB : steel + glycerol – heel (contact angle 7°)		**0,16**	≥ 0,13