COFRA®
BORN TO WORK

PRODUCT SHEET

WELDER BIS UK S3S HI CI HRO LG SC FO SR

Prod. Ref.	26640-N00
Safety cat.	S3S HI CI HRO LG SC FO SR
Range of sizes	39 - 48 (6 - 13)
Weight (sz. 8)	740 g
Shape	B
Width (6)	10
Width (6,5 - 13)	11

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

Plus: **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 fiberglass 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). Laces protection from sparks. Adjustable velcro closure. **Polyurethane toe cap protection**. **Fireproof seams**

Suggested uses: footwear for welders

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	**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 1,8/2,0 mm
Vamp lining	Felt, breathable, colour dark grey
	thickness 1,2 mm
Quarter lining	**TEXELLE**, breathable, abrasion resistant, colour black
	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 resistant and heat resistant.
	Midsole: black polyurethane, made of a special compound which resists to 150°C for 30 minutes without its chemical-physical features being altered

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2022	Description	Unit	Cofra result	Requirement
5.3.2.6	Shock resistance (clearance after shock)	mm	**14,5**	≥ 14
5.3.2.7	Compression resistance (clearance after compression)	mm	**15**	≥ 14
6.2.1	Penetration resistance	N	**To 1100 N**	≥ 1100
	(**PS** requirement with Ø 3,0 mm nail)		**No perforation**	
6.2.2.2	Electric resistance			
	- wet	MΩ	**143,29**	≥ 0.1
	- dry	MΩ	**456,96**	≤ 1000
6.2.3.1	Heat insulation (temp. increase after 30' at **150** °C)	°C	**7**	≤ 22
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	**5**	≤ 10
6.2.4	Shock absorption	J	**36**	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	**> 2**	≥ 0,8
	Permeability coefficient	mg/cmq	**> 23,5**	≥ 15
6.3	Water absorption		**9,5%**	≤ 30%
	Water penetration		**0,0 g**	≤ 0,2 g
5.5.4	Water vapour permeability	mg/cmq h	**> 5**	≥ 2
	Permeability coefficient	mg/cmq	**> 41,9**	≥ 20
5.5.4	Water vapour permeability	mg/cmq h	**> 2,4**	≥ 2
	Permeability coefficient	mg/cmq	**> 19,9**	≥ 20
5.8.4	Abrasion resistance (lost volume)	mm^3	**106**	≤ 150
5.8.5	Flexing resistance (cut increase)	mm	**2**	≤ 4
5.8.7	Interlayer bond strength	N/m	**4,5**	≥ 3
6.4.4	Hot resistance (300 °C)	-----	**any melting**	any melting

	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**7,7**	≤ 12
Adherence coefficient of the sole (Slip resistance)	5.3.5.2	ceramic + detergent solution – forepart (contact angle 7°)		**0,50**	≥ 0,36
		ceramic + detergent solution – heel (contact angle 7°)		**0,47**	≥ 0,31
	6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)		**0,29**	≥ 0,22
		SR : ceramic + glycerol – heel (contact angle 7°)		**0,25**	≥ 0,19