Heavy

WELDER S3S

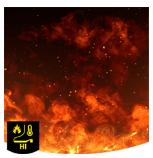
WELDERS3S

Mid-cut S3S Welding Boot

Lightweight, metal-free welding boot with fire-retardant leather, quick-release Velcro, nano-carbon toe, and ESD/HRO safety.

Upper	Full Grain Leather
Lining	Recycled Mesh
Footbed	SJ foam footbed
Midsole	Anti-Puncture Textile
Outsole	Rubber (NBR), BASF PU
Toecap	Nano Carbon
Category	S3S / SR, SC, LG, FO, HI, HRO, CI, ESD
Size range	EU 36-49 / UK 3.5-13.5 / US 4.0-14.5 JPN 22.5-32.5 / KOR 235-325
Sample weight	0.710 kg
Norms	EN ISO 20345:2022+A1:2024 ASTM F2413:2024

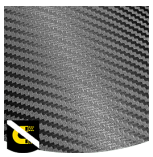
BLK



Heat insulated (HI)
Heat insulated (HI) safety footwear is usually worn in hot temperature environments. It limits the increase of temperature inside the shoe.

Heat resistant outsole (HRO)
The outsole resists high temperatures up to 300°C.

Breathable leather upper
Natural leather provides a high degree of wearer comfort combined with durability in versatile applications.



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.

Electrostatic Discharge (ESD)
ESD provides the controlled discharge of electrostatic energy that can damage electronic components and avoids risks of ignition resulting from electrostatic charges. Volume resistance between 100 KiloOhm and 100 MegaOhm.

Nano carbon toecap
Ultralight high-tech material, metalfree with no thermal or electrical conductivity.

Industries:
Assembly, Construction, Industry, Mining

Environments:
Warm surfaces, Dry environment, Cold environment, 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	**Full Grain Leather**			
	Upper: permeability to water vapor	mg/cm^2/h	2.3	≥ 0.8
	Upper: water vapor coefficient	mg/cm^2	29.4	≥ 15
Lining	**Recycled Mesh**			
	Lining: permeability to water vapor	mg/cm^2/h	86.31	≥ 2
	Lining: water vapor coefficient	mg/cm^2	691	≥ 20
Footbed	**SJ foam footbed**			
	Footbed: abrasion resistance (dry/wet) (cycles)	cycles	25600/12800	25600/12800
Outsole	**Rubber (NBR), BASF PU**			
	Outsole abrasion resistance (volume loss)	mm^3	116	≤ 150
	Basic Slip resistance - Ceramic + NaLS - Forward heel slip	friction	0.39	≥ 0.31
	Basic Slip resistance - Ceramic + NaLS - Backward forepart slip	friction	0.38	≥ 0.36
	SR Slip resistance - Ceramic + glycerin - Forward heel slip	friction	0.23	≥ 0.19
	SR Slip resistance - Ceramic + glycerin - Backward forepart slip	friction	0.24	≥ 0.22
	Antistatic value	MegaOhm	20.7	0.1 - 1000
	ESD value	MegaOhm	17	0.1 - 100
	Heel energy absorption	J	37	≥ 20
Toecap	**Nano Carbon**			
	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	17.5	≥ 14
	Compression resistance toecap (clearance after compression 15kN)	mm	19.5	≥ 14

Sample size: 42