



Light

## LIGHTSTAR S1PS

LIGHTSTAR

**Lightweight safety shoe that offers comfortable and metal-free protection**

The LIGHTSTAR S1PS is a groundbreaking safety shoe offering superior protection and comfort. It's perfect for dry environments and uneven surfaces, featuring a metal-free toecap, puncture-resistant midsole and slip resistance.

Upper	Synthetic, Textile
Lining	Mesh
Footbed	SJ foam footbed
Midsole	Anti-puncture Textile
Outsole	EVA/Rubber (NBR)
Toecap	Composite
Category	S1 PS / SR, SC, ESD, HI, CI, HRO
Size range	EU 35-48 / UK 3.0-13.0 / US 3.0-13.5 JPN 21.5-31.5 / KOR 230-315
Sample weight	0.461 kg
Norms	ASTM F2413:2018 EN ISO 20345:2022+A1:2024



BLK



### Slip resistance (SR)

Replaces the previously used term of SRA+SRB=SRC. SR means the slip test has been executed on tiles contaminated with soap and with oil.



### Puncture resistant lightweight

Metal free, super flexible and ultralight puncture resistant midsole. Covers 100% of the bottom area of the last, no thermal conductivity.



### Composite toecap

Metalfree and lightweight, no thermal or electrical conductivity



### Removable insole

Renew your insole at a regular base or use your own orthopedic insoles for a higher comfort.

**Industries:**

Assembly, Automotive, Industry, Logistics

**Environments:**

Dry environment, Uneven surfaces

**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
<b>Upper</b>	<b>Synthetic, Textile</b>			
	Upper: permeability to water vapor	mg/cm <sup>2</sup> /h	33.2	≥ 0.8
	Upper: water vapor coefficient	mg/cm <sup>2</sup>	265.5	≥ 15
<b>Lining</b>	<b>Mesh</b>			
	Lining: permeability to water vapor	mg/cm <sup>2</sup> /h	86.31	≥ 2
	Lining: water vapor coefficient	mg/cm <sup>2</sup>	691	≥ 20
<b>Footbed</b>	<b>SJ foam footbed</b>			
	Footbed: abrasion resistance (dry/wet) (cycles)	cycles	Dry 25600 cycles/Wet 12800 cycles	25600/12800
<b>Outsole</b>	<b>EVA/Rubber (NBR)</b>			
	Outsole abrasion resistance (volume loss)	mm <sup>3</sup>	102.2	≤ 150
	Basic Slip resistance - Ceramic + NaLS - Forward heel slip	friction	0.49	≥ 0.31
	Basic Slip resistance - Ceramic + NaLS - Backward forepart slip	friction	0.46	≥ 0.36
	SR Slip resistance - Ceramic + glycerin - Forward heel slip	friction	0.36	≥ 0.19
	SR Slip resistance - Ceramic + glycerin - Backward forepart slip	friction	0.34	≥ 0.22
	Antistatic value	MegaOhm	68.0	0.1 - 1000
	ESD value	MegaOhm	21	0.1 - 100
	Heel energy absorption	J	33	≥ 20
<b>Toecap</b>	<b>Composite</b>			
	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	15.5	≥ 14
	Compression resistance toecap (clearance after compression 15kN)	mm	22.0	≥ 14

Sample size:

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