

# LIGERO S1 P

# **Lightweight ESD Safety Shoes**

Ultra-light, flexible safety shoe with SJ-3FIT adjustable width, nano carbon toe cap, and hybrid insole for unmatched comfort at work.

I I	Mesh	
Upper	Mesii	
Lining	Recycled Mesh	
Footbed	SJ foam footbed	
Midsole	Nonwoven	
Outsole	Phylon/Rubber (NBR)	
Toecap	Nano Carbon	
Category	S1 P / ESD, SRC, CI	
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	0.439 kg	
Norms	ASTM F2413:2018 EN ISO 20345:2011	





































# 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.



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.



# Nano carbon toecap

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



# Puncture resistant lightweight

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



Three-dimensional produced distance mesh to provide increased moisture and temperature management.



# SJ Foam

Removable comfortable antistatic footbed providing fit, guidance and optimum shock absorption in heel and forefoot. Breathable and moisture absorbing.









### **Industries:**

Automotive, Logistics, Industry

### **Environments:**

Dry environment, Extreme slippery 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
Upper	Mesh			
	Upper: permeability to water vapor	mg/cm²/h	37	# 0.8
	Upper: water vapor coefficient	mg/cm <sup>2</sup>	250	# 15
Lining	Recycled Mesh			
	Lining: permeability to water vapor	mg/cm²/h	80	# 2
	Lining: water vapor coefficient	mg/cm <sup>2</sup>	550	# 20
Footbed	SJ foam footbed			
	Footbed: abrasion resistance (dry/wet) (cycles)	cycles	25600/12800	25600/12800
Outsole	Phylon/Rubber (NBR)			
	Outsole abrasion resistance (volume loss)	mm³	85	# 150
	Outsole slip resistance SRA: heel	friction	0.46	# 0.28
	Outsole slip resistance SRA: flat	friction	0.39	# 0.32
	Outsole slip resistance SRB: heel	friction	0.14	# 0.13
	Outsole slip resistance SRB: flat	friction	0.18	# 0.18
	Antistatic value	MegaOhm	N/A	0.1 - 1000
	ESD value	MegaOhm	45	0.1 - 100
	Heel energy absorption	J	20	# 20
Тоесар	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	16	# 14
	Compression resistance toecap (clearance after compression 15kN)	mm	16.5	# 14

Sample size:

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