



Light

## FREEDOM S1PS MID

FYTS1PSMID

### Lightweight Safety Shoes S1PS Mid

Free your toes with FREEDOM S1PS MID. The anatomically shaped toe cap supports barefoot-like walking. Lightweight, breathable and metal free.

Upper	Textile
Lining	3D-Mesh
Footbed	SJ foam footbed
Midsole	Nonwoven
Outsole	ETPU/Rubber (NBR)
Toecap	Nano Carbon
Category	S1 PS / SR, SC, FO, HI, HRO, CI, ESD
Size range	EU 35-50 / UK 3.0-14.0 / US 3.0-15.0 JPN 21.5-33.0 / KOR 230-330
Sample weight	0.585 kg
Norms	EN ISO 20345:2022+A1:2024 ASTM F2413:2024



BLK



#### Heel energy absorption

Heel energy absorption reduces the impact of jumps or running on the body of the wearer.



#### Nano carbon toecap

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



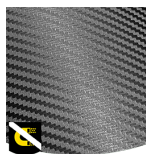
#### Breathable upper

Increased moisture and temperature management for extended wearer comfort.



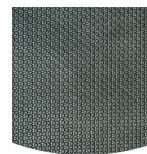
#### 3D mesh

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



#### 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.



#### Rubber outsole

Rubber outsoles provide versatile functions that make them suitable for many areas of application: excellent cut resistance, heat and cold resistance, high flexibility at cold temperatures, resistance against oil, fuel and many chemicals.

**Industries:**

Assembly, Automotive, Industry, Logistics

**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
<b>Upper</b>	<b>Textile</b>			
	Upper: permeability to water vapor	mg/cm <sup>2</sup> /h	32.71	≥ 0.8
	Upper: water vapor coefficient	mg/cm <sup>2</sup>	262	≥ 15
<b>Lining</b>	<b>3D-Mesh</b>			
	Lining: permeability to water vapor	mg/cm <sup>2</sup> /h	37.07	≥ 2
	Lining: water vapor coefficient	mg/cm <sup>2</sup>	297	≥ 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>ETPU/Rubber (NBR)</b>			
	Outsole abrasion resistance (volume loss)	mm <sup>3</sup>	114	≤ 150
	Basic Slip resistance - Ceramic + NaLS - Forward heel slip	friction	0.47	≥ 0.31
	Basic Slip resistance - Ceramic + NaLS - Backward forepart slip	friction	0.45	≥ 0.36
	SR Slip resistance - Ceramic + glycerin - Forward heel slip	friction	0.35	≥ 0.19
	SR Slip resistance - Ceramic + glycerin - Backward forepart slip	friction	0.32	≥ 0.22
	Antistatic value	MegaOhm	42.6	0.1 - 1000
	ESD value	MegaOhm	20	0.1 - 100
	Heel energy absorption	J	33	≥ 20
<b>Toecap</b>	<b>Nano Carbon</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	16.5	≥ 14
	Compression resistance toecap (clearance after compression 15kN)	mm	23.0	≥ 14

Sample size:

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