



Light

## ALTO TLS

ALTOTLS

Light like space, strong like a rock. Our lightweight ALTO safety sneaker has a rubber outsole that offers great slip resistance, while also resisting oil, fuel, chemicals, and extreme temperatures. It features ESD, a breathable upper, a toe cap and heel energy absorption. ALTO offer a wide fit and comes with our game-changing TLS closure.

Upper	Synthetic, Textile
Lining	Mesh
Footbed	SJ foam footbed
Midsole	N/A
Outsole	Phylon/Rubber
Toecap	Plastic
Category	SR, ESD, FO
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	0.426 kg



BLK



DBL



**Breathable upper**  
Increased moisture and temperature management for extended wearer comfort.

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

**Oil & fuel resistant**  
The outsole is resistant against oil and fuel.

**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.

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

**Industries:**

Assembly, Automotive, Industry, Logistics, Oil & Gas

**Environments:**

Dry environment, Extreme slippery surfaces, Warm 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	
<b>Upper</b>	<b>Synthetic, Textile</b>			
	Upper: permeability to water vapor	mg/cm <sup>2</sup> /h	4.87	≥ 0.8
	Upper: water vapor coefficient	mg/cm <sup>2</sup>	40	≥ 15
<b>Lining</b>	<b>Mesh</b>			
	Lining: permeability to water vapor	mg/cm <sup>2</sup> /h	2.99	≥ 2
	Lining: water vapor coefficient	mg/cm <sup>2</sup>	31	≥ 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>Phylon/Rubber</b>			
	Outsole abrasion resistance (volume loss)	mm <sup>3</sup>	128(Density:1.17)	≤ 150
	Basic Slip resistance - Ceramic + NaLS - Forward heel slip	friction	0.43	≥ 0.31
	Basic Slip resistance - Ceramic + NaLS - Backward forepart slip	friction	0.44	≥ 0.36
	SR Slip resistance - Ceramic + glycerin - Forward heel slip	friction	0.37	≥ 0.19
	SR Slip resistance - Ceramic + glycerin - Backward forepart slip	friction	0.35	≥ 0.22
	Antistatic value	MegaOhm	N/A	0.1 - 1000
	ESD value	MegaOhm	24	0.1 - 100
	Heel energy absorption	J	N/A	≥ 20
<b>Toecap</b>	<b>Plastic</b>			
	Impact resistance toecap (clearance after impact 100J)	mm	20.5	N/A
	Compression resistance toecap (clearance after compression 10kN)	mm	23.5	N/A
	Impact resistance toecap (clearance after impact 200J)	mm	N/A	N/A
	Compression resistance toecap (clearance after compression 15kN)	mm	N/A	N/A

Sample size: 42

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