

Medium

## HAVEN S3

**Sporty, slip-resistant and full-leather ESD safety sneaker with composite toe cap**

The HAVEN sneaker is metal-free and made from natural Nappa leather that offers high breathability and comfort, while the composite toe cap, shock-absorbing footbed and ESD properties provide the necessary protection. The rubber outsole is oil, fuel and heat resistant and performs outstandingly in terms of slip resistance, keeping you on your feet all.

Upper	Full Grain Leather
Lining	Mesh
Footbed	SJ foam footbed
Midsole	Nonwoven
Outsole	Rubber (NBR)
Toecap	Nano Carbon
Category	S3 / ESD, SRC
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	0.525 kg
Norms	ASTM F2413:2018 EN ISO 20345:2011



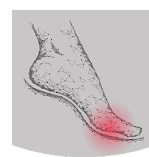
BLK



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



**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.



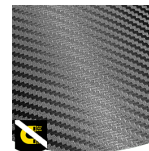
**Forefoot energy absorption**  
Forefoot energy absorption reduces the impact of jumps or running on the body of the wearer.



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



**Composite toecap**  
Metalfree and lightweight, no thermal or electrical conductivity



**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.

**Industries:**

Assembly, Automotive, Chemical, Catering, Food & beverages, Industry, Logistics, Medical, Uniform

**Environments:**

Dry environment, Extreme slippery surfaces, Wet environment, 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	EN ISO 20345
<b>Upper</b>	<b>Full Grain Leather</b>			
	Upper: permeability to water vapor	mg/cm <sup>2</sup> /h	1.1	≥ 0.8
	Upper: water vapor coefficient	mg/cm <sup>2</sup>	21	≥ 15
<b>Lining</b>	<b>Mesh</b>			
	Lining: permeability to water vapor	mg/cm <sup>2</sup> /h	3.7	≥ 2
	Lining: water vapor coefficient	mg/cm <sup>2</sup>	54	≥ 20
<b>Footbed</b>	<b>SJ foam footbed</b>			
	Footbed: abrasion resistance (dry/wet) (cycles)	cycles	25600/12800	25600/12800
<b>Outsole</b>	<b>Rubber (NBR)</b>			
	Outsole abrasion resistance (volume loss)	mm <sup>3</sup>	113	≤ 150
	Outsole slip resistance SRA: heel	friction	0.42	≥ 0.28
	Outsole slip resistance SRA: flat	friction	0.46	≥ 0.32
	Outsole slip resistance SRB: heel	friction	0.15	≥ 0.13
	Outsole slip resistance SRB: flat	friction	0.19	≥ 0.18
	Antistatic value	MegaOhm	N/A	0.1 - 1000
	ESD value	MegaOhm	85	0.1 - 100
	Heel energy absorption	J	24	≥ 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	14	≥ 14
	Compression resistance toecap (clearance after compression 15kN)	mm	14.5	≥ 14

Sample size: 42

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