

TECHNICAL DATA SHEET

Name

Code

HV MATERA S1P

36122N S1PS FO SR

Product Range

Standard

EN ISO

Weight

Size range

Mondopoint

Packaging



S1PS FO SR

20345:2022

500 grams
(1 shoe in size 42)

35 <> 48

11

10 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES

MICROLIGHT

ANATOMICAL
INTERNAL PROFILE

self-cleaning

ANTI-TORSION

ARCH
SUPPORT

The MICROLIGHT® soles, which combine cutting-edge compounds for both the PU foam midsole and the compact PU outsole, excel in lightness, flexibility, and elasticity, while offering exceptional stability and wear resistance.

PROTECTIVE ELEMENTS

UPPER

LINING

FOOTBED

SUPER
SHIELD

SUPER
SHELL

ALVIER®
LEATHER

AIRNET®
MESH

SANITIZED®
INSOLE

Safety toe cap made from composite material, shielding toes from impacts up to 200 Joules and compressions up to 15 kN. It is non-magnetic, non-conductive, and provides superior thermal insulation.

Protective plate made from multi-layer polyester, 40% lighter than steel, yet equally resistant up to 1,100 Newtons. It is non-magnetic, insulating and hypoallergenic.

Crafted from premium leather and treated for a velvety touch, combines softness with resilience for daily work.

Three-layer wear-resistant lining featuring a microchannel network for unparalleled breathability and antimicrobial properties to prevent odors and microorganism growth.

Antistatic and anti-odour removable insole with SANITIZED® technology ensuring hygiene and a fresh feeling all day.

EXTRA

INFINITY
INSERT

CARBON
LABEL

REAR
TAB

VELCRO®
CLOSURE

METAL
FREE



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	16,5
TOE CAP: Compression resistance	mm	≥ 14	19,5
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	pass
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	11,4
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	71
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	9,6
UPPER: Water vapour coefficient	mg/cm2	≥ 15	84,9
UPPER: Water penetration after 60 min	g	≤ 0,2	-
UPPER: Water absorption after 60 min	%	≤ 30	-
INTERNAL LINING: Water vapour permeability	mg/(cm2*h)	≥ 2,0	81,1
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	649,1
OUTSOLE: Abrasion resistance	mm3	≤ 150	67
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	29
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	6,9
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	1,2

ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear <small>Requirements IEC 61340-5-1:2016</small>	mA	≤ 1,00	-
Resistance to hot contact (HRO)	-	outsoles shall not melt and develop any cracks when bent	-
Cold insulation of outsole complex (CI) 30min/-17°C <small>(temperature decrease on the upper surface of the insock)</small>	°C	≤ 10	-
Heat insulation of outsole complex (HI) 30min/150°C	°C	≤ 22	-
Water resistance (WR) <small>(Total wetted area inside the footwear)</small>	cm2	after 80 min.	-
Electric hazard resistance (EH) 18kV / 60 Hz <small>(Electric flux)</small>	MΩ	≤ 100	-

STORAGE, CARE AND MAINTENANCE

- PANDA SAFETY footwear should be stored in original packaging, storage temperature should not exceed 35°C, humidity should be less than 80% and without the influence of direct sunlight.
- Sandals, shoes and boots should be cleaned after each use; dry off the shoes, not in proximity to or in direct contact with stoves or other sources of heat.
- Carry out the periodic treatment of the uppers with suitable products containing wax, grease, silicone, etc.
- Avoid contact with aggressive chemicals and extreme temperatures.
- Verify the good state before each use.

SOLE DESIGN AND PERFORMANCE



TRACTION STABILITY GRIP BRAKING SELF-CLEANING LADDER GRIP

ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA

0 MINIMUM VALUE REQUIRED 20 TEST RESULT 29 45%

INDUSTRIES

