

TECHNICAL DATA SHEET

Name

AMBROSIA S2

Code

3919 S2 FO SR

Product Range



Standard

S2 FO SR

EN ISO

20345:2022

Weight

450 grams
(1 shoe in size 42)

Size range

35 <-> 50

Mondopoint

11

Packaging

10 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES



The PU COMB® sole, entirely crafted from polyurethane foam, offers lightness, elasticity, and comfort. Its honeycomb tread provides suction cup grip, superior slip-resistance, and self-cleaning features.



PROTECTIVE ELEMENTS



Heat-treated and epoxy-coated safety toe cap withstands impacts up to 200 Joules and compressions up to 15 kN. Stainless steel fibers increase durability and beveled edges enhance comfort.

UPPER



Hypoallergenic microfiber with high breathability, tear, rip, scratch, and friction resistance, plus water-repellent and stain-resistant properties.

LINING



Made from durable multi-layer fabric, this lining offers excellent breathability and moisture wicking. It features SANITIZED® treatment to suppress microorganism growth and prevent odours.

FOOTBED



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

EXTRA



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	14
TOE CAP: Compression resistance	mm	≥ 14	16
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	-
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	27,2
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	368
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	0,9
UPPER: Water vapour coefficient	mg/cm2	≥ 15	15,1
UPPER: Water penetration after 60 min	g	≤ 0,2	0
UPPER: Water absorption after 60 min	%	≤ 30	2,6
INTERNAL LINING: Water vapour permeability	mg/(cm2*h)	≥ 2,0	81,1
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	1045,8
OUTSOLE: Abrasion resistance	mm3	≤ 150	90
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	29
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	4
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	0

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 insole)</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	-

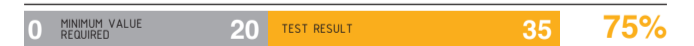
STORAGE, CARE AND MAINTENANCE

- 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



ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA



INDUSTRIES

