

# TECHNICAL DATA SHEET

SAFETY

PANDA®

Italian Style at Work

Name

**BRIO S3**

Product Range

Standard

»TOP TREKKING

Code

**82572 S3S FO**

EN ISO

20345:2022+A1:2024

Weight  
640 grams  
(1 shoe in size 42)

Size range

38 <> 48

11

6 pairs/carton  
(same size)

Mondopoint

Packaging



## TECHNICAL SPECIFICATIONS



TOE CAP



RESISTANCE,  
SAFETY



ERGONOMICS  
AND COMFORT



SLIP RESISTANCE  
DETERGENT



FUEL OIL  
RESISTANT



SHOCK ABSORBER



ANTISTATIC



COMPOSITE  
MIDSOLE

## SOLE

**THERMO GRIP**

THERMO GRIP® soles feature a PU foam midsole and a thermo-polyurethane outsole, designed for superior grip, even weight distribution, thermal insulation, and anti-abrasion reinforcement

**ANATOMICAL INTERNAL PROFILE**

**self cleaning**

**ANTI TORSION**

**ARCH SUPPORT**

## PROTECTIVE ELEMENTS



**SUPER SHIELD**

Multilayer polymeric toe cap, approximately 40% lighter than steel, yet able to resist impacts of up to 200 Joules and compressive loads of up to 15 Kilonewtons. Non-magnetic, thermally insulating, and corrosion-resistant, it provides complete protection for the toes.



**SUPER SHELL**

Crafted from multilayer polyester fabric, this protective plate is around 40% lighter than steel while delivering the same resistance to penetration forces, up to 1,100 Newtons. Flexible, non-magnetic, thermally insulating, corrosion-resistant and hypoallergenic, it safeguards 100% of the foot's resting surface



**PERSPI NYLON**

Technical nylon with moisture-wicking and quick-drying performance. Durable and comfortable in prolonged contact with the skin



**AIRNET MESH**

Three-layer mesh ensuring breathability, moisture control, and lasting comfort



**Thermo Formed**

Removable insole that evenly distributes weight, adapts to foot morphology, and provides antistatic, antibacterial, antifungal, and ESD protection. A cushioned heel insert further enhances comfort

## EXTRA

**INFI INFINITY**

**REAR TAB**

**PLR**

**CARBON REFLECTIVE**

**EXTRA-COMFORT PADDINGS**



## SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
<b>TOE CAP:</b> Impact resistance	mm	≥ 14	15
<b>TOE CAP:</b> Compression resistance	mm	≥ 14	16,5
<b>ANTI-PUNCTURE PLATE:</b> Penetration resistance	N	≥ 1.100	pass
<b>FOOTWEAR:</b> Antistatic properties (in wet condition)	MΩ	≥ 0,1	33
<b>FOOTWEAR:</b> Antistatic properties (in dry condition)	MΩ	≤ 1.000	190
<b>UPPER:</b> Water vapour permeability	mg/cm <sup>2</sup> *h	≥ 0,8	21,9
<b>UPPER:</b> Water vapour coefficient	mg/cm <sup>2</sup>	≥ 15	182,8
<b>UPPER:</b> Water penetration after 60 min	g	≤ 0,2	0
<b>UPPER:</b> Water absorption after 60 min	%	≤ 30	2,3
<b>INTERNAL LINING:</b> Water vapour permeability	mg/(cm <sup>2</sup> *h)	≥ 2,0	96,4
<b>INTERNAL LINING:</b> Water vapour coefficient	mg/cm <sup>2</sup>	≥ 20	771,3
<b>OUTSOLE:</b> Abrasion resistance	mm <sup>3</sup>	≤ 150	76
<b>OUTSOLE:</b> Energy absorption of seat region (E)	J	≥ 20	25
<b>OUTSOLE:</b> Flexural resistance	mm	≤ 4	0
<b>OUTSOLE:</b> Interlayer bond strength	N/mm	≥ 4	9,5
<b>OUTSOLE:</b> Resistance to fuel oil (FO)	%	≤ 12	2,7

## ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
<b>Electrical resistance for ESD footwear</b> <small>Requirements IEC 61340-5-1:2016</small>	MΩ	≤ 1,00	-
<b>Resistance to hot contact (HRO)</b>	-	autosoles shall not melt and develop any cracks when bent	-
<b>Cold insulation of outsole complex (CI)</b> 30min/-17°C <small>(temperature decrease on the upper surface of the insole)</small>	°C	≤ 10	-
<b>Heat insulation of outsole complex (HI)</b> 30min/150°C	°C	≤ 22	-
<b>Water resistance (WR)</b> <small>(Total wetted area inside the footwear)</small>	cm <sup>2</sup>	after 80 min.	-
<b>Electric hazard resistance (EH)</b> 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

0 MINIMUM VALUE REQUIRED 20 TEST RESULT 25 25%

## INDUSTRIES

