

# TECHNICAL DATA SHEET

Name

**LYBRA S1**

Code

**3116 S1 FO SR**

Product Range

Standard

EN ISO

Weight

Size range

Mondopoint

Packaging



S1 FO SR

20345:2022 +A1:2024

420 grams  
(1 shoe in size 42)

35 <-> 50

11

10 pairs/carton  
(same size)

## TECHNICAL SPECIFICATIONS



TOE CAP



RESISTANCE, SAFETY



ERGONOMICS AND COMFORT



SLIP RESISTANCE DETERGENT



FUEL OIL RESISTANT



SHOCK ABSORBER



ANTISTATIC



SLIP RESISTANCE GLYCERINE

## BEST SELLER

### SOLE

### SOLE FEATURES



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



### PROTECTIVE ELEMENTS

### UPPER

### LINING

### FOOTBED



Protective toe cap manufactured from hardened steel and coated with epoxy paint. Certified to withstand impacts of up to 200 Joules and compressive loads of up to 15 Kilonewtons. Its slim profile maximises interior space while maintaining both safety and comfort.



Hydrophobic microfibre treated to resist liquid penetration while remaining breathable. Maintains structural stability for consistent performance



Antibacterial multi-layer lining maintaining hygiene and freshness



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

### EXTRA



## SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
<b>TOE CAP:</b> Impact resistance	mm	≥ 14	14,5
<b>TOE CAP:</b> Compression resistance	mm	≥ 14	19
<b>ANTI-PUNCTURE PLATE:</b> Penetration resistance	N	≥ 1.100	-
<b>FOOTWEAR:</b> Antistatic properties (in wet condition)	MΩ	≥ 0,1	6,9
<b>FOOTWEAR:</b> Antistatic properties (in dry condition)	MΩ	≤ 1.000	141
<b>UPPER:</b> Water vapour permeability	mg/cm2*h	≥ 0,8	1,8
<b>UPPER:</b> Water vapour coefficient	mg/cm2	≥ 15	17,3
<b>UPPER:</b> Water penetration after 60 min	g	≤ 0,2	-
<b>UPPER:</b> Water absorption after 60 min	%	≤ 30	-
<b>INTERNAL LINING:</b> Water vapour permeability	mg/(cm2*h)	≥ 2,0	89,3
<b>INTERNAL LINING:</b> Water vapour coefficient	mg/cm2	≥ 20	714,2
<b>OUTSOLE:</b> Abrasion resistance	mm3	≤ 150	68
<b>OUTSOLE:</b> Energy absorption of seat region (E)	J	≥ 20	28
<b>OUTSOLE:</b> Flexural resistance	mm	≤ 4	0
<b>OUTSOLE:</b> Interlayer bond strength	N/mm	≥ 4	4,8
<b>OUTSOLE:</b> Resistance to fuel oil (FO)	%	≤ 12	3,7

## 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>	-	outsoles shall not melt and develop any cracks when bent	-
<b>Cold insulation of outsole complex (CI) 30min/-17°C</b> <small>(temperature decrease on the upper surface of the insock)</small>	°C	≤ 10	-
<b>Heat insulation of outsole complex (HI) 30min/150°C</b>	°C	≤ 22	-
<b>Water resistance (WR)</b> <small>(Total wetted area inside the footwear)</small>	cm2	after 80 min.	-
<b>Electric hazard resistance (EH) 18kV / 60 Hz</b> <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

