

TECHNICAL DATA SHEET

Name

RAR

Code

59099 S3S FO

Product Range

Standard

EN ISO

Weight

Size range

Mondopoint

Packaging



S3S FO

20345:2022

590 grams
(1 shoe in size 42)

38 <> 48

11

6 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES



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

PROTECTIVE ELEMENTS

UPPER

LINING

FOOTBED



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.

A durable, water and mould resistant synthetic polyurethane fibre that stands out for its flexibility, stretching up to five times its length.

Abrasion-resistant and breathable lining that maintains the ideal microclimate inside the footwear.

Removable insole made from antistatic polyurethane, featuring a polyurethane gel heel insert for shock absorption, and treated with antimicrobial and antibacterial agents.

EXTRA



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	15
TOE CAP: Compression resistance	mm	≥ 14	15
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	1587
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	68,8
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	259
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	2,2
UPPER: Water vapour coefficient	mg/cm2	≥ 15	18,3
UPPER: Water penetration after 60 min	g	≤ 0,2	0
UPPER: Water absorption after 60 min	%	≤ 30	7,8
INTERNAL LINING: Water vapour permeability	mg/(cm2*h)	≥ 2,0	81,7
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	654
OUTSOLE: Abrasion resistance	mm3	≤ 150	94
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	38
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	5,7
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	3,4

ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear Requirements IEC 61340-5-1:2016	MΩ	≤ 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 (temperature decrease on the upper surface of the insock)	°C	≤ 10	-
Heat insulation of outsole complex (HI) 30min/150°C	°C	≤ 22	-
Water resistance (WR) (Total wetted area inside the footwear)	cm2	after 80 min.	-
Electric hazard resistance (EH) 18kV / 60 Hz (Electric flux)	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



INDUSTRIES

