

# TECHNICAL DATA SHEET

Name

**CERBIATTO FGL**

Code

**09999 S3S FO HRO SR**

Product Range

Standard

EN ISO

Weight

Size range

Mondopoint

Packaging



S3S FO HRO SR

20345:2022

780 grams  
(1 shoe in size 42)

38 <-> 48

11

6 pairs/carton  
(same size)

## TECHNICAL SPECIFICATIONS



## SOLE

## SOLE FEATURES



Vibram® is a world leader in high-performance rubber soles for safety footwear. The TC4+ compound blends a unique tread design with cutting-edge compounds, delivering outstanding grip, thermal insulation, tear resistance, and long-term durability.

## PROTECTIVE ELEMENTS

## UPPER

## LINING

## FOOTBED



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.

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.

Multi-layer waterproof leather designed to block liquid penetration. Maintains stability and breathability, providing reliable protection in wet conditions.

High-performance lining resistant to abrasion and bacteria.

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



## SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
<b>TOE CAP:</b> Impact resistance	mm	≥ 14	15,5
<b>TOE CAP:</b> Compression resistance	mm	≥ 14	19
<b>ANTI-PUNCTURE PLATE:</b> Penetration resistance	N	≥ 1.100	1350
<b>FOOTWEAR:</b> Antistatic properties (in wet condition)	MΩ	≥ 0,1	124
<b>FOOTWEAR:</b> Antistatic properties (in dry condition)	MΩ	≤ 1.000	300
<b>UPPER:</b> Water vapour permeability	mg/cm2*h	≥ 0,8	2,9
<b>UPPER:</b> Water vapour coefficient	mg/cm2	≥ 15	31
<b>UPPER:</b> Water penetration after 60 min	g	≤ 0,2	0
<b>UPPER:</b> Water absorption after 60 min	%	≤ 30	17
<b>INTERNAL LINING:</b> Water vapour permeability	mg/(cm2*h)	≥ 2,0	17,5
<b>INTERNAL LINING:</b> Water vapour coefficient	mg/cm2	≥ 20	139,9
<b>OUTSOLE:</b> Abrasion resistance	mm3	≤ 150	74
<b>OUTSOLE:</b> Energy absorption of seat region (E)	J	≥ 20	37
<b>OUTSOLE:</b> Flexural resistance	mm	≤ 4	0
<b>OUTSOLE:</b> Interlayer bond strength	N/mm	≥ 4	5,9
<b>OUTSOLE:</b> Resistance to fuel oil (FO)	%	≤ 12	1,4

## 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>	-	autoles shall not melt and develop any cracks when bent	pass
<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



## INDUSTRIES

