


TECHNICAL DATA SHEET

| | |
|---------------|---------------------|
| Name | Code |
| CERBIATTO FGL | 09999 S3S FO HRO SR |

| | | | | | | |
|---|---------------|------------|----------------------------------|------------|------------|-------------------------------|
| Product Range | Standard | EN ISO | Weight | Size range | Mondopoint | Packaging |
|  | S3S FO HRO SR | 20345:2022 | 700 grams (1 shoe in size 42) | 38 <> 48 | 11 | 6 pairs/carton (same size) |

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES



Vibram® leads in high-performance rubber soles for safety footwear, where their soles blend unique designs with cutting-edge compounds. The TC4+ compound offers unmatched grip, stability, thermal insulation, and tear resistance.



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.



The most durable among the full-grain leathers; it guarantees total water resistance thanks to a special tanning process.



Microfiber lining, treated to inhibit bacterial and microbial growth, boasts exceptional breathability and superior abrasion resistance.



Removable insole that distributes weight evenly, adapts to foot morphology and has anti-static, antibacterial, and antifungal properties. A cushioned heel insert adds comfort.

EXTRA



SAFETY TECHNICAL SPECIFICATIONS

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

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 | pass |
| Cold insulation of outsole complex (CI) 30min/-17°C <small>(temperature decrease on the upper surface of the insock)</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



| | | | | | |
|----------|-----------|------|---------|---------------|-------------|
| TRACTION | STABILITY | GRIP | BRAKING | SELF-CLEANING | LADDER GRIP |
| | | | | | |

| | | | | | |
|--|------------------------|----|-------------|----|-------|
| ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA | | | | | |
| 0 | MINIMUM VALUE REQUIRED | 20 | TEST RESULT | 44 | +120% |

INDUSTRIES

