

TECHNICAL DATA SHEET

SAFETY

PANDA®

Italian Style at Work

Name

TEMPRA

Product Range

EXTREME

Code

47090E S3 SRC ESD

Standard

S3 SRC ESD

EN ISO

20345:2011

Weight

610 grams
(1 shoe in size 42)

Size range

35 <> 48

Mondopoint

11

Packaging

6 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES

THERMO GRIP

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

ANATOMICAL INTERNAL PROFILE

self cleaning

ANTI TORSION

ARCH SUPPORT



PROTECTIVE ELEMENTS



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.



High-quality full-grain leather that is sanded and brushed on the grain side post-tanning for a soft, velvety surface.



Three-layer wear-resistant lining featuring a microchannel network for unparalleled breathability and antimicrobial properties to prevent odors and microorganism growth.



Removable insole crafted from polyurethane gel for superior impact absorption, incorporating ESD technology to dissipate electrostatic charges.

EXTRA

INFINITY INSERT



EXTRA-COMFORT PADDINGS



REAR TAB



METAL FREE



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	16,5
TOE CAP: Compression resistance	mm	≥ 14	15,5
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	pass
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	19,9
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	328
UPPER: Water vapour permeability	mg/cm ² *h	≥ 0,8	4,4
UPPER: Water vapour coefficient	mg/cm ²	≥ 15	43,6
UPPER: Water penetration after 60 min	g	≤ 0,2	0,2
UPPER: Water absorption after 60 min	%	≤ 30	12,9
INTERNAL LINING: Water vapour permeability	mg/(cm ² *h)	≥ 2,0	35,5
INTERNAL LINING: Water vapour coefficient	mg/cm ²	≥ 20	284,1
OUTSOLE: Abrasion resistance	mm ³	≤ 150	38
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	34
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	5,8
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	0,7

SOLE DESIGN AND PERFORMANCE



TRACTION STABILITY GRIP BRAKING SELF-CLEANING LADDER GRIP

0 MINIMUM VALUE REQUIRED 20 TEST RESULT 37 85%

INDUSTRIES



ADDITIONAL FEATURES

	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear	MΩ	≤ 100	92,1
Resistance to hot contact (HRO)	-	autosoles shall not melt and develop any cracks when bent	-
Cold insulation of outsole complex (CI) 30min/-17°C	°C	≤ 10	-
Heat insulation of outsole complex (HI) 30min/150°C	°C	≤ 22	-
Water resistance (WR)	cm ²	after 80 min.	-
Electric hazard resistance (EH) 18kV / 60 Hz	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.