TECHNICAL DATA SHEET

SAFETY PANDA® Italian Style at Work

Name	Code
TIARA	**45090E S3 SRC ESD**

Product Range	Standard	EN ISO	Weight	Size range	Mondopoint	Packaging
EXTREME	S3 SRC ESD	20345:2011	575 grams (1 shoe in size 42)	35 <> 48	11	10 pairs/carton (same size)

BEST SELLER

TECHNICAL SPECIFICATIONS



SOLE

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.

SOLE FEATURES

ANATOMICAL INTERNAL PROFILE · self cleaning · ANTI TORSION · ARCH SUPPORT



PROTECTIVE ELEMENTS

SUPER SHIELD

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

SUPER SHELL

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.

UPPER

NUBUK

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

LINING

AIRNET® MESH

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

FOOTBED

SOFT-GEL® INSOLE ESD

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

EXTRA

INFINITY INSERT · EXTRA-COMFORT PADDINGS · 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/cm2*h	≥ 0,8	4,4
UPPER: Water vapour coefficient	mg/cm2	≥ 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/(cm2*h)	≥ 2,0	35,5
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	284,1
OUTSOLE: Abrasion resistance	mm3	≤ 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

ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear (Requirements IEC 61340-5-1:2016)	MΩ	≤ 100	92,1
Resistance to hot contact (HRO)	-	autsoles 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	-

SOLE DESIGN AND PERFORMANCE

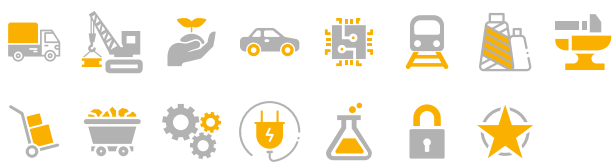


TRACTION · STABILITY · GRIP · BRAKING · SELF-CLEANING · LADDER GRIP

ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA

0 MINIMUM VALUE REQUIRED 20 | TEST RESULT 37 — 85%

INDUSTRIES



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.

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