

TECHNICAL DATA SHEET

Name	Code					
TEMPRA	47090E S3 SRC ESD					

Product Range	Standard	EN ISO	Weight	Size range	Mondopoint	Packaging
<div>EXTREME</div>	S3 SRC ESD	20345:2011	610 grams (1 shoe in size 42)	35 <> 48	11	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

UPPER

LINING

FOOTBED

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.

NUBUK

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

AIRNET MESH

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

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

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/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 <small>Requirements IEC 61340-5-1:2016</small>	MΩ	≤ 100	92,1
Resistance to hot contact (HRO)	-	autoles shall not melt and develop any cracks when bent	-
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



TRACTIONSTABILITYGRIPBRAKINGSELF-CLEANINGLADDER GRIP

ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA

0

MINIMUM VALUE REQUIRED

20

TEST RESULT

37

85%

INDUSTRIES

