TECHNICAL DATA SHEET

SAFETY PANDA® Italian Style at Work

Name	Code
ENERGY GREY	**11270 S1PL FO SR**

Product Range	Standard	EN ISO	Weight	Size range	Mondopoint	Packaging
TOPSPORT	S1PL FO SR	20345:2022	500 grams (1 shoe in size 42)	35 <> 50	10	6 pairs/carton (same size)

NEW PRODUCT

TECHNICAL SPECIFICATIONS

SOLE

TriDuraFlex

Through detailed analysis of worker needs across various industries, the PANDA SAFETY R&D team has developed a groundbreaking sole. The TriDuraFlex® sole, combining three distinct materials, optimizes comfort, stability, and grip.

SOLE FEATURES

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

PROTECTIVE ELEMENTS

ALUMINUM SHIELD

Made from a high-strength aluminum alloy used in aerospace, this safety toe cap protects against impacts up to 200 Joules and compressions up to 15 Kilonewtons.

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

JACQUARD® FABRIC

Made from high-tenacity polya-mide yarns, this fabric provides tear and abrasion resistance while offering the textile's lightness and breathability.

LINING

ABSORBER

Abrasion-resistant and breathable lining that maintains the ideal microclimate inside the footwear.

FOOTBED

HIGH-PER

Advanced removable insole crafted from polyurethane and polyether, providing antistatic properties, unbeatable cushioning, moisture management, and continuous air circulation.

EXTRA

INFINITY INSERT · EXTRA-COMFORT PADDINGS · REAR TAB

SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	14,5
TOE CAP: Compression resistance	mm	≥ 14	20
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	pass
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	13,5
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	300
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	9,8
UPPER: Water vapour coefficient	mg/cm2	≥ 15	78,7
UPPER: Water penetration after 60 min	g	≤ 0,2	-
UPPER: Water absorption after 60 min	%	≤ 30	-
INTERNAL LINING: Water vapour permeability	mg/(cm2*h)	≥ 2,0	48,3
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	386,8
OUTSOLE: Abrasion resistance	mm3	≤ 150	12
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	35
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	7,7
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	0,9

ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear (Requirements IEC 61340-5-1:2016)	MΩ	≤ 1,00	-
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 30 **0,42**

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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