

TECHNICAL DATA SHEET

Name

UNO LOW

Code

11720E S3S FO LG SR ESD

Product Range

Standard

EN ISO

Weight

Size range

Mondopoint

Packaging



S3S FO LG SR ESD

20345:2022+A1:2024

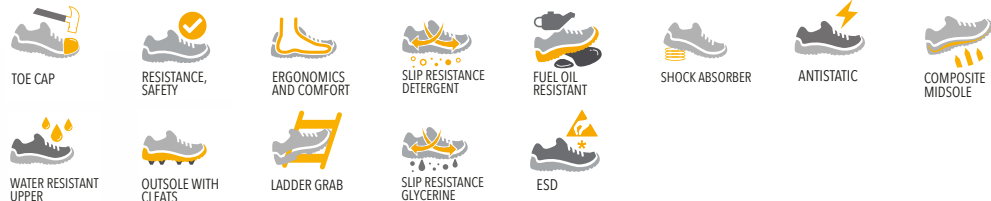
570 grams
(1 shoe in size 42)

35 <-> 50

10

6 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



NEW PRODUCT

SOLE

SOLE FEATURES



The TriDuraFlex® sole combines three distinct materials to optimise comfort, stability, and grip. A groundbreaking solution that reflects PANDA SAFETY's commitment to innovation and performance.



PROTECTIVE ELEMENTS

UPPER

LINING

FOOTBED



Toe cap produced from a high-strength aluminium alloy, widely used in aerospace applications. Lightweight yet durable, it withstands impacts of up to 200 Joules and compressive loads of up to 15 Kilonewtons, ensuring dependable protection in demanding environments.



Crafted from multilayer polyester fabric, this protective plate is around 40% lighter than steel while delivering the same resistance to penetration forces, up to 1,100 Newtons. Flexible, non-magnetic, thermally insulating, corrosion-resistant and hypoallergenic, it safeguards 100% of the foot's resting surface



Microsuede treated with a hydro-resistant coating for improved water repellence. Maintains breathability and ensures lasting comfort during extended wear.



Three-layer mesh ensuring breathability, moisture control, and lasting comfort.



Advanced removable insole made from polyurethane and polyester, offering antistatic properties, unbeatable cushioning, moisture management, and continuous air circulation.

EXTRA



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	0,2
UPPER: Water vapour coefficient	mg/cm2	≥ 15	7,4
UPPER: Water penetration after 60 min	g	≤ 0,2	0
UPPER: Water absorption after 60 min	%	≤ 30	0,2
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	pass
Resistance to hot contact (HRO)	-	autoles 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	-

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



ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA				
0	MINIMUM VALUE REQUIRED	20	TEST RESULT	35
				75%

INDUSTRIES

