

TECHNICAL DATA SHEET

Name

MISTRAL

Code

96939 S3 FO AN SR

Product Range



Standard

S3 FO SR

EN ISO

20345:2022

Weight

720 grams
(1 shoe in size 42)

Size range

35 <-> 50

Mondopoint

11

Packaging

10 pairs/carton
(same size)

TECHNICAL SPECIFICATIONS



BEST SELLER

SOLE



DOUBLE FORMULA® soles feature a morpho-anatomical design that blends light, flexible PU foam midsoles with durable tread made of compact PU. The result is an outsole that guarantees long-lasting grip, stability, and comfort even in the toughest workplaces.

SOLE FEATURES



PROTECTIVE ELEMENTS



Protective toe cap manufactured from hardened steel and coated with epoxy paint. Certified to withstand impacts of up to 200 Joules and compressive loads of up to 15 Kilonewtons. Its slim profile maximises interior space while maintaining both safety and comfort.



Integrated into the sole, this corrosion-resistant steel plate is designed to protect the foot from penetration by sharp objects. Each plate undergoes rigorous testing and guarantees resistance of up to 1,100 Newtons.



Waterproof leather treated to protect against moisture without reducing breathability. Ensures durability and abrasion resistance in environments exposed to liquids



High-performance lining resistant to abrasion and bacteria



Removable insole that evenly distributes weight, adapts to foot morphology, and provides antistatic, antibacterial, antifungal, and ESD protection. A cushioned heel insert further enhances comfort

EXTRA



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	19
TOE CAP: Compression resistance	mm	≥ 14	21
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	1484
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	93
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	155
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	1,5
UPPER: Water vapour coefficient	mg/cm2	≥ 15	19,2
UPPER: Water penetration after 60 min	g	≤ 0,2	0
UPPER: Water absorption after 60 min	%	≤ 30	2,2
INTERNAL LINING: Water vapour permeability	mg/(cm2*h)	≥ 2,0	17,5
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	139,9
OUTSOLE: Abrasion resistance	mm3	≤ 150	105
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	38
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	4,5
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	0,9

ADDITIONAL FEATURES

Test	Measurement Unit	Requirement	Results
Electrical resistance for ESD footwear <small>Requirements IEC 61340-5-1:2016</small>	MΩ	≤ 1,00	-
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



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

ENERGY ABSORPTION COEFFICIENT IN THE HEEL AREA					
0	MINIMUM VALUE REQUIRED	20	TEST RESULT	38	90%

INDUSTRIES

