

TECHNICAL DATA SHEET

Name	Code					
HV BETA S3			6222 S3 FO SR			
Product Range	Standard	EN ISO	Weight	Size range	Mondopoint	Packaging
	S3 FO SR	20345:2022+A1:2024	570 grams (1 shoe in size 42)	35 <-> 50	10,5	10 pairs/carton (same size)

TECHNICAL SPECIFICATIONS



SOLE

SOLE FEATURES



DOUBLE FORMULA® soles feature a morpho-anatomical design, blending light, flexible PU foam midsoles with durable, grippy outsoles made of compact PU.



PROTECTIVE ELEMENTS

UPPER

LINING

FOOTBED



Heat-treated and epoxy-coated safety toe cap withstands impacts up to 200 Joules and compressions up to 15 kN. Stainless steel fibers increase durability and beveled edges enhance comfort.



Corrosion-resistant steel plate integrated into the outsole, protecting the foot from penetration by foreign objects.



A special tanning process involving a polyurethane film application makes this genuine leather completely water-resistant, offering enhanced protection.



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



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

EXTRA



SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	Requirement	Test Result
TOE CAP: Impact resistance	mm	≥ 14	15
TOE CAP: Compression resistance	mm	≥ 14	15,5
ANTI-PUNCTURE PLATE: Penetration resistance	N	≥ 1.100	1461
FOOTWEAR: Antistatic properties (in wet condition)	MΩ	≥ 0,1	1,5
FOOTWEAR: Antistatic properties (in dry condition)	MΩ	≤ 1.000	19,2
UPPER: Water vapour permeability	mg/cm2*h	≥ 0,8	0
UPPER: Water vapour coefficient	mg/cm2	≥ 15	2,2
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	92,5
INTERNAL LINING: Water vapour coefficient	mg/cm2	≥ 20	740
OUTSOLE: Abrasion resistance	mm3	≤ 150	17
OUTSOLE: Energy absorption of seat region (E)	J	≥ 20	35
OUTSOLE: Flexural resistance	mm	≤ 4	0
OUTSOLE: Interlayer bond strength	N/mm	≥ 4	5,6
OUTSOLE: Resistance to fuel oil (FO)	%	≤ 12	2,2

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)	-	outsoles 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	35
				75%

INDUSTRIES

