



PRODUCT SHEET

TIGROTTO 90090 S3 CI SRC



Product Code	90090
EN Standard	EN ISO 20345:2011
Safety Category	S3 CI SRC
Range of Sizes	36 - 48
Wide	11
Packaging	6 pairs of same size

DESCRIPTION

Boots in genuine waterproof leather with reflecting elements and PU additional protection for the toe cap, which is in steel, as the protective midsole. The ankle collar and the tongue are soft padded for a higher comfort; the internal faux fur lining grants an optimal cold insulation. The outsole has properties/features anti-slip, anti-static, anti-torsion, anti-abrasion and shock absorbing.

MATERIALS

Upper	Waterproof genuine leather		
Lining	Faux fur (cotton fibres)		
Sole	Midsole in low density polyurethane Outsole in double-density polyurethane		
Protective toe cap	STEEL	Impact resistance: until 200J Compression resistance: until 1500 kg	
Protective midsole	STEEL		

SAFETY TECHNICAL SPECIFICATIONS

Description	Measurement Unit	EN ISO 20345:2011		Test Result	Description	Measurement Unit	EN ISO 20345:2011		Test Result
		Clause	Requirement				Clause	Requirement	
Impact resistance	mm	5.3.2.3	≥ 14	16	Upper: water penetration after 60 min	g	6.3	≤ 0,2	0
Compression resistance	mm	5.3.2.4	≥ 14	16	Upper: water absorption after 60 min	%	6.3	≤ 30	11
Penetration resistance	N	6.2.1.1	≥ 1100	pass	Lining: water vapour permeability	mg/(cm ² *h)	5.5.3	≥ 2,0	22
Antistatic footwear: in wet condition	MΩ	6.2.2.2	≥ 0,1	30	Lining: water vapour coefficient	mg/cm ²	5.5.3	≥ 20	176,5
Antistatic footwear: in dry condition	MΩ	6.2.2.2	≤ 1000	335	Outsole: abrasion resistance	mm ³	5.8.3	≤ 150	73
Energy absorption of seat region (E)	J	6.2.4	≥ 20	38	Outsole: flexing resistance	mm	5.8.4	≤ 4	0
Water vapour permeability	mg/cm ² *h	5.4.6	≥ 0,8	1,4	Outsole: interlayer bond strength	N/mm	5.8.6	≥ 4	4,6
Water vapour coefficient	mg/cm ²	5.4.6	≥ 15	26,7	Outsole: hydrocarbons resistance	%	5.8.7	≤ 12	2,5

SLIP RESISTANCE SPECIFICATIONS

Friction coefficient	Clause	Requirement	Test Result	Excess
Ceramic tile floor with NaLS (7°)	5.3.5.2	≥ 0,28	0,34	21,4%
Ceramic tile floor with NaLS	5.3.5.2	≥ 0,32	0,39	21,9%
Steel floor with glycerine (7°)	5.3.5.3	≥ 0,13	0,2	53,8%
Steel floor with glycerine	5.3.5.3	≥ 0,18	0,21	16,7%

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 influence of direct sunlight. Footwear should be cleaned after each use; dry off the shoes not in proximity or in direct contact with stoves or other sources of heat. Carry out the periodic treatment of the uppers with adequate products containing wax, grease, silicone, etc. Avoid contact with aggressive chemicals and extreme temperatures. Verify the good state before each use.

The data indicated in this sheet are subject to modification without notice in case of evolution in materials.

All rights reserved. No part of this sheet can be reproduced in any form without written consent.

Italian Style at work