

Article	PB RANGER
Category	S3 CI SRC
Sizes	36 - 48
Width	11
Weight (half pair, sz 42)	753 gr
Metal free	No
Certification	CE



RAIN & COLD

UPPER	Water resistant nubuck greased leather
LINING	B-dry and Thinsulate™ Ultra Insulation 400gr, thermo-insulating fabric effective up to 30 °C below zero
TOE CAP	steel, 200 Joule, nickel free
ANTI-PERFORATION MIDSOLE	non-magnetic, perforation resistance composite fabric plate. It is 40% lighter and more flexible than steel plate and at the same time guarantees an optimal protection covering 100% of the foot surface. Certified EN 12568:2010
FOOTBED	insole PU 10mm expanded, covered with antibacterial fabric
SOLE	PU double density with optimal absorption of strains on the vertebral column thanks to the use of expanded PU midsole. Maximum stability

	Requirements EN ISO 20345:2011	Test Results
UPPER		
Water Vapour Permeability	mg/cmq*h ≥ 0,8	3,4
Water Vapour Coefficient	mg/cmq ≥ 15	34,6
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearence under the toecap	mm ≥ 14	14,5
Compression resistance: clearence under the toecap	mm ≥ 14	14,5
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	14
- dry condition (30% relative humidity)	MΩ ≤ 1000	100
SOLE		
Abrasion resistance: relative volume loss	mm' ≤ 150	57
Flexing resistance: cut growth	mm ≤ 4	1
Resistance to fuel oil: volume increase	% ≤ 12	0,44
Energy absorption of seat region	J ≥ 20	34
Slip resistance on	7° Heel ≥ 0,13	0,17
steel ground with glycerine	Flat ≥ 0,18	0,22
Slip resistance on	7° Heel ≥ 0,28	0,38
ceramics ground with detergent	Flat ≥ 0,32	0,49

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