



2021 **PRODUCT
PERFORMANCE
PASSION**

2^a EDIZIONE /
2^{ème} ÉDITION

PERF

PRODUCT PERFORMANCE PASSION



ENGINEERED IN ITALY



COMPANY VALUES

A name that reminds to the essence that inspired everything:
Passion for Performances.

A team of experts that have a vision, not just making shoes but creating solutions.
It isn't only a work; it is the search for the perfection in every detail.
In engineering, designing, production. Never looking for the minimal requirements. Perf create new forms, technologies, styles, establishing higher standards each time.

To experiment and innovate with just one aim: to improve performances every day.

Our collections are dedicated to the heroes of our times, to all workers. From the ones building skyscrapers, roads, cars and ships or extracting oil and gas in the most extreme environments, to the people that make our life more comfortable.

This is the PERF World. Experience in product and passion.

Making the working days simply better.



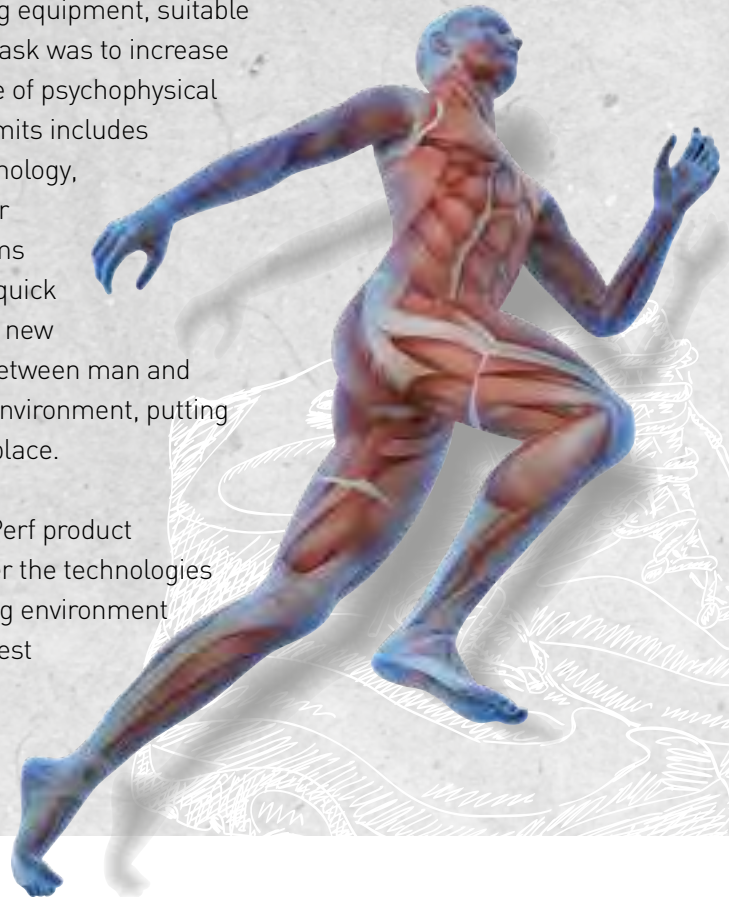


ANATOMY AND COMFORT

DESIGN & COMFORT

The rapid technological growth of last century allowed the creation of a more performing equipment, suitable to support the human limits. Its task was to increase and improve the work at the edge of psychophysical possibilities. The study of such limits includes knowledge of anthropology, psychology, engineering, physiology and other Sciences to elaborate new systems and technologies. Afterward the quick industrial development will bring new challenges to the relationships between man and machine, man and the working environment, putting safety and efficiency on the first place.

These are the fundamentals of Perf product development. Combining together the technologies to reduce the risks on the working environment with the best design, for the highest comfort.



ERGONOMIC=DESIGN+TECHNOLOGY



Article **LION**
 Category **S1 P SRC, ESD class 2**
 Sizes **36 - 47**
 Width **11**
 Weight (half pair, sz 42) **560 gr**
 Metal free **Yes**
 Certification **CE BGR191**



PREDATOR

collection

UPPER	Dry-Tech, 3D highly breathable fabric and antiabrasion leather
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	non-magnetic toecap, from composite materials. 50% lighter than steel
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	Test Results
UPPER	EN ISO 20345:2011	Results
Water Vapour Permeability	mg/cm ² *h ≥ 0,8	7,5
Water Vapour Coefficient	mg/cmq ≥ 15	66
LINING		
Water Vapour Permeability	mg/cm ² *h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	24
Compression resistance: clearance under the toecap	mm ≥ 14	19
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	19
- dry condition (30% relative humidity)	MΩ ≤ 1000	364
ESD features (EN 61340-5-1)		
Ground electrical resistance	Ω ≤ 3,5 x 10 ⁷	3,4 x 10 ⁷
Transversal sole electrical resistance	Ω ≥ 1x10 ⁵ R ≤ 1x10 ⁸	9 x 10 ⁷
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	42,5
Flexing resistance: cut growth	mm ≤ 4	0
Resistance to fuel oil: volume increase	% ≤ 12	1,7
Energy absorption of seat region	J ≥ 20	27
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,14
	Flat ≥ 0,18	0,24
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,60
	Flat ≥ 0,32	0,80



Article **THUNDER**
 Category **S1 P SRC**
 Sizes **36 - 47**
 Width **11**
 Weight (half pair, sz 42) **510 gr**
 Metal free **Yes**
 Certification **CE**

UPPER	suede leather with Fresh-Tech insert, material light and ultra-breathable synthetic fabric, maintains the internal microclimate at the ideal level even at high temperatures. Guarantees exceptional resistance to abrasion
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	non-magnetic toecap, from composite materials. 50% lighter than steel
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



E-LITE collection

	Requirements	Test Results
UPPER	EN ISO 20345:2011	
Water Vapour Permeability	mg/cm ² *h ≥ 0,8	5,1
Water Vapour Coefficient	mg/cmq ≥ 15	47,8
LINING		
Water Vapour Permeability	mg/cm ² *h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	300
- dry condition (30% relative humidity)	MΩ ≤ 1000	650
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	45
Flexing resistance: cut growth	mm ≤ 4	1,5
Resistance to fuel oil: volume increase	% ≤ 12	1,1
Energy absorption of seat region	J ≥ 20	23
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,15
	Flat ≥ 0,18	0,19
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,33
	Flat ≥ 0,32	0,46

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Article **TYPHOON HIGH**
 Category **S3 SRC**
 Sizes **36 - 47**
 Width **11**
 Weight (half pair, sz 42) **580 gr**
 Metal free **Yes**
 Certification **CE**



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collection

UPPER	Water resistant nubuck leather with anti-abrasion leather
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	non-magnetic toecap, from composite materials. 50% lighter then steel
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	Test Results
UPPER	EN ISO 20345:2011	
Water Vapour Permeability	mg/cmq*h ≥ 0,8	4,7
Water Vapour Coefficient	mg/cmq ≥ 15	42,8
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	300
- dry condition (30% relative humidity)	MΩ ≤ 1000	650
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	45
Flexing resistance: cut growth	mm ≤ 4	1,5
Resistance to fuel oil: volume increase	% ≤ 12	1,1
Energy absorption of seat region	J ≥ 20	23
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,15
	Flat ≥ 0,18	0,19
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,33
	Flat ≥ 0,32	0,46



Article **SNIPER BROWN**
 Category **S3 SRC**
 Sizes **38 - 47**
 Width **11**
 Weight (half pair, sz 42) **575 gr**
 Metal free **Yes**
 Certification **CE**



E·LITE
collection

UPPER	Water resistant nubuck leather
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	non-magnetic toecap, from composite materials. 50% lighter then steel
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	Test Results
UPPER	EN ISO 20345:2011	
Water Vapour Permeability	mg/cmq*h ≥ 0,8	4,7
Water Vapour Coefficient	mg/cmq ≥ 15	42,8
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	300
- dry condition (30% relative humidity)	MΩ ≤ 1000	650
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	45
Flexing resistance: cut growth	mm ≤ 4	1,5
Resistance to fuel oil: volume increase	% ≤ 12	1,1
Energy absorption of seat region	J ≥ 20	23
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,15
	Flat ≥ 0,18	0,19
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,33
	Flat ≥ 0,32	0,46



Article	Hummer
Category	S3 SRC
Sizes	38 - 47
Width	11
Weight (half pair, sz 42)	575 gr
Metal free	No
Certification	CE

UPPER	Water repellent nubuck leather
LINING	Extremely breathable polyamide lining. It absorbs moisture quickly and ensure a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial properties.
TOE CAP	Steel Toe Cap, Resistant to 200J
ANTI-PERFORATION MIDSOLE	Steel
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. Anti-static properties, Heat resistance to 120° C, SRC rated Slip resistance, Maximum stability



E.LITE
collection

	Requirements	Test Results
UPPER	EN ISO 20345:2011	
Water Vapour Permeability	mg/cmq*h ≥ 0,8	4,7
Water Vapour Coefficient	mg/cmq ≥ 15	42,8
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	300
- dry condition (30% relative humidity)	MΩ ≤ 1000	650
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	45
Flexing resistance: cut growth	mm ≤ 4	1,5
Resistance to fuel oil: volume increase	% ≤ 12	1,1
Energy absorption of seat region	J ≥ 20	23
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,15
	Flat ≥ 0,18	0,19
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,33
	Flat ≥ 0,32	0,46

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Article	PB 43 C Tan
Category	S3 SRC
Sizes	38 - 47
Width	11
Weight (half pair, sz 42)	800 gr
Metal free	No
Certification	CE

UPPER	Water repellant leather. Side tabs for quick and easy pull on
LINING	Unlined
TOE CAP	Steel Toe Cap, Resistant to 200J
ANTI-PERFORATION MIDSOLE	Steel
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. Anti-static properties, Heat resistance to 120° C, SRC rated Slip resistance, Maximum stability

PSD
TECHNOLOGY



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	Requirements	Test Results
UPPER	EN ISO 20345:2011	
Water Vapour Permeability	mg/cmq*h ≥ 0,8	4,7
Water Vapour Coefficient	mg/cmq ≥ 15	42,8
TOE CAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	300
- dry condition (30% relative humidity)	MΩ ≤ 1000	650
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	45
Flexing resistance: cut growth	mm ≤ 4	1,5
Resistance to fuel oil: volume increase	% ≤ 12	1,1
Energy absorption of seat region	J ≥ 20	23
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,15
	Flat ≥ 0,18	0,19
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,33
	Flat ≥ 0,32	0,46

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Article	ASKOLD
Category	S3 SRC
Sizes	36 - 47
Width	11
Weight (half pair, sz 42)	650 gr
Metal free	No
Certification	CE



UPPER	grain leather
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	steel, 200 Joule
ANTI-PERFORATION MIDSOLE	Steel
FOOTBED	insole PE 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 $\geq 0,8$	3
Water Vapour Coefficient	mg/cmq ≥ 15	26
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	19,5
Compression resistance: clearance under the toecap	mm ≥ 14	16
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	M Ω $\geq 0,1$	17
- dry condition (30% relative humidity)	M Ω ≤ 1000	208
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 150	55
Flexing resistance: cut growth	mm ≤ 4	65
Resistance to fuel oil: volume increase	% ≤ 12	0,55
Energy absorption of seat region	J ≥ 20	30
Slip resistance on	7° Heel $\geq 0,13$	0,15
steel ground with glycerine	Flat $\geq 0,18$	0,19
Slip resistance on	7° Heel $\geq 0,28$	0,40
ceramics ground with detergent	Flat $\geq 0,32$	0,43

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SUMMARY OF EUROPEAN LEGISLATION

The European legislation in force since 1993 distinguishes the types of footwear according to the level of risk, establishing the specific requirements for each category.

1. Safety footwear EN ISO 20345:2011

(from the English: SAFETY) These are provided with toe caps made to give protection against knocks up to an energy level of 200 joules and against the risk of crushing with a maximum load of 15.000 N.

2. Occupational footwear 20347:2012

(from the English: OCCUPATIONAL) They are not provided with protective toe caps

The puncture resistant sole guarantees resistance to perforations of up to a load of 1.100 N. The identification symbol is P.

The quick release device must be used in the event of a danger of the infiltration of incandescent parts and/or corrosive liquids.

The safety footwear is Category II – with EC Mark, in compliance with the European Directive EEC 89/686. We are therefore listing the markings which are used by law to allow identification of the specific requirements of the footwear, as well as the data regarding the manufacturer and the date of manufacture.

	EN ISO 20345:2011				EN ISO 20347:2012				Minimum required values EN ISO 20345:2011 EN ISO 20347:2012
	SB	S1	S2	S3	OB	O1	O2	O3	
A Antistatic footwear	-	•	•	•	-	•	•	•	from 1x10 ⁵ OHM bis 1x10 ⁹ OHM
E Heel energy absorption	-	•	•	•	-	•	•	•	≥20 Joules
WRU Water Resistant Upper	-	-	•	•	-	-	•	•	> 60' – Absorption ≤ 30%
P Pierce Resistant midsole	-	-	-	•	-	-	-	•	≥ 1100 N.
CI Insulation from cold	-	-	-	-	-	-	-	-	Δ Tem. ≤ 10° C.
HI Insulation from heat	-	-	-	-	-	-	-	-	Δ Tem. ≤ 22° C.
C Conductive footwear	-	-	-	-	-	-	-	-	< 1x10 ⁶ OHM
HRO Heat resistance on contact	-	-	-	-	-	-	-	-	at 300° C. for 60" – Does not melt. AN
AN Ankle protection	-	-	-	-	-	-	-	-	Average value > 20 kN
IS Electrical isolation (Dielectric)	-	-	-	-	-	-	-	-	class 00 ou Class 0
WR Water resistance	-	-	-	-	-	-	-	-	No penetration for first 15' (minutes). After 100 lengths no more than 3 cm ² of water must enter (spot)
M Metatarsal protection	-	-	-	-	-	-	-	-	Height after impact > 40 mm (size42)CR
CR Cut resistance of Upper	-	-	-	-	-	-	-	-	Facteur I ≥ 2,5
FO Resistance of to hydrocarbons	-	•	•	•	-	-	-	-	Requirement always present according to EN ISO 20345:2007 and EN ISO 20346:2007, but to specify with initials FO when included in EN ISO 20347:2012

ex OR0

-Requested requirements;---non compulsory requirements: check stamp on footwear

Slip resistance - Norm: EN ISO 2034X:2011 (where X= 5 o 7)

Symbol	Conditions requises prévues par la norme
SRA Testing ground: ceramic Lubricant: cleanser	≥ 0.32 flat footwear ≥ 0.28 footwear with a 7° heel incline
SRB Testing ground: steel Lubrificant: glycerine	≥ 0.18 flat footwear ≥ 0.13 footwear with 7° heel incline
SRC	Both requirements stated above

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PERF ITALIA Srl
Via Callano 161/163
76121 - Barletta (BT)
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