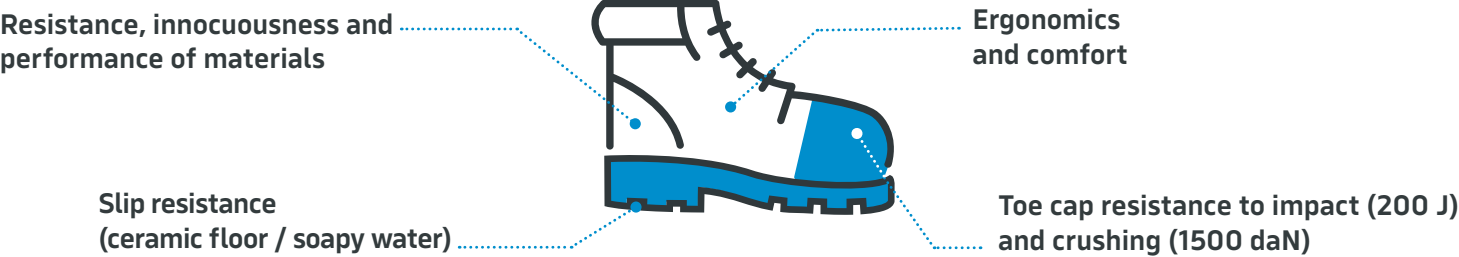


SAFETY FOOTWEAR STANDARDS



EN ISO 20345 : 2022

1 FUNDAMENTAL REQUIREMENTS



2 MAIN MARKINGS

		FOOTWEAR MADE FROM LEATHER AND OTHER MATERIALS*												POLYMERIC FOOTWEAR				
		S1 BREATHABLE SHOES					WATER-REPELLENT S2 OR S3 SHOES				SHOES WITH MEMBRANE							
		MARKING																
		SB	S1	S1P	S1PL	S1PS	S2	S3	S3L	S3S	S6	S7	S7L	S7S	S4	S5	S5L	S5S
FUNDAMENTAL REQUIREMENTS		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Closed heel area			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Antistatic shoes A			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Energy absorption of seat region E			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Anti-puncture insert P PL PS				metallic P >4,5 mm	non-metallic - large nail PL >4,5 mm	non-metallic - small nail PS >3 mm		metallic P >4,5 mm	non-metallic - large nail PL >4,5 mm	non-metallic - small nail PS >3 mm		metallic P >4,5 mm	non-metallic - large nail PL >4,5 mm	non-metallic - small nail PS >3 mm		metallic P >4,5 mm	non-metallic - large nail PL >4,5 mm	non-metallic - small nail PS >3 mm
Sole with cleats								•	•	•		•	•	•		•	•	•
Water penetration and absorption of upper WPA							•	•	•	•	•	•	•	•				
Water resistance - whole shoe WR											•	•	•	•				

*excluding rubber or any polymer

3 ADDITIONAL MARKINGS

SCNEW

Scuff cap abrasion

LGNEW

Ladder grip

SRNEW

ceramic floor + oil
Slip resistance

HRO

Heat resistant outsole

M

Metatarsal protection

AN

Ankle protection

HI

Insulation against heat

CI

Insulation against cold

FO

Fuel oil resistant outsole

CR

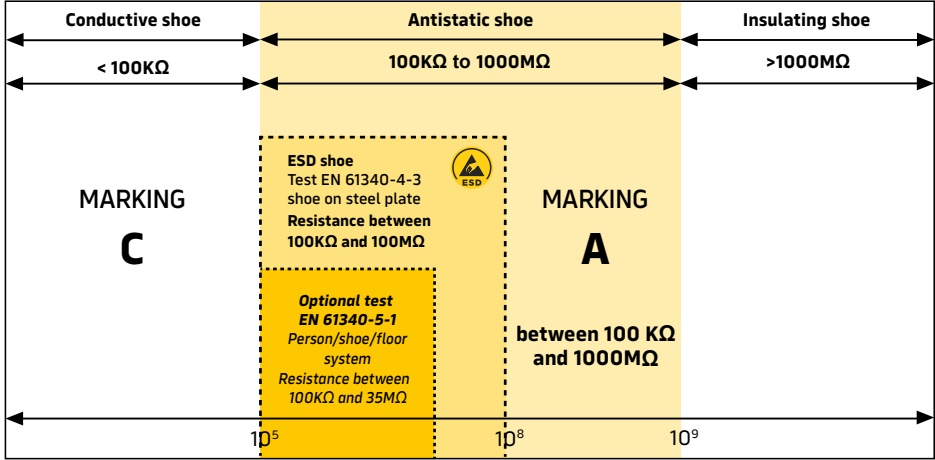
Cut resistance

C

Conductive shoes

ESD standard

'ESD' stands for Electrostatic Discharge. Unlike the antistatic properties claimed in standard EN 20345 ('A' marking), ESD is not a personal protection standard.



The standard aims to prevent electrostatic discharges that can damage electronic equipment handled by the user.

ESD footwear therefore guarantees the dissipation of electrostatic charge from the wearer to the ground. To be ESD certified, the electrical resistance of safety footwear must be between 100KΩ and 100MΩ.