User Notice

Function	European Standards EN ISO 20345 for safety footwear
Impact Resistance	Level of protection : 200 Joules
Compression Resistance	Level of protection : 15 kN
Penetration resistance	With symbol of "P" resist a penetration force of 1,100 Newtons (N)

Marked	Standard for EN20345: 2011	
SB	Basic requirements for safety footwear with a toe cap resistant to an impact of 200 Joules	
S 1	As above SB standard, plus closed seat region. Anti-static properties. Energy absorption of seat region. Fuel resistance.	
S2	As above S1 standard, plus water absorption and desorption Non Cleated outsole.	
\$3	As above S2 standard, plus penetration resistance. Cleated outsole.	

Symbols	Function	Requirement	
Р	Penetration Resistance	>1100N	
E	Energy Absorption	>20J	
А	Anti Static	Between 0.01 und 1000 M Ω	
С	Conductive Footwear	<0.1 ΜΩ	
НІ	Insulation Against Heat	The environment is 150 $^{\circ}\mathrm{C}$ for 30 minutes, the insole surface temperature should not rise above 22 $^{\circ}\mathrm{C}$	
CI	Insulation Against Cold	In an environment of minus 17 $^\circ\mathbb{C}$ for 30 minutes after the insole surface temperature should not declined by more than 10 $^\circ\mathbb{C}$	
HRO	Resistance to Hot Contact up to 300°C	When exposed to high temperatures up to 300 $^{\circ}\mathrm{C}$ of the surface, there should be no broken soles	
WRU	Water Penetration and Water Absorption Resistant Upper	Water penetration time> 30 min. Water absorption after 20% \leq 30min Permeable volume \leq 3g / h Water vapor permeability \geq 0.8mg/cm2h	

Marked	The lubricant	Test Area	Test Mode	Normative standards friction coefficient	
SRA	Sodium lauryl sulphate (SLS) solution	Ceramic tile floor	Forward heel slip	≥ 0.28	
			Forward flat slip	≥ 0.32	
SRB	Glycerol	Steel floor	Forward heel slip	≥ 0.13	
			Forward flat slip	≥ 0.18	
SRC	Pass By SRA, SRB slip Specification Test				