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## Lancer Non-metallic Safety Shoes

Lancer Non-metal Safety Shoes



has formally  
changed its  
name to

**Honeywell**

As technicians and managers,  
we need to get ready and work in different places as required,  
such as meeting room, workshop, warehouse and R&D center...

「We all need a pair of safety shoes that suit various environments.」



The answer is

「non-metal safety shoes」

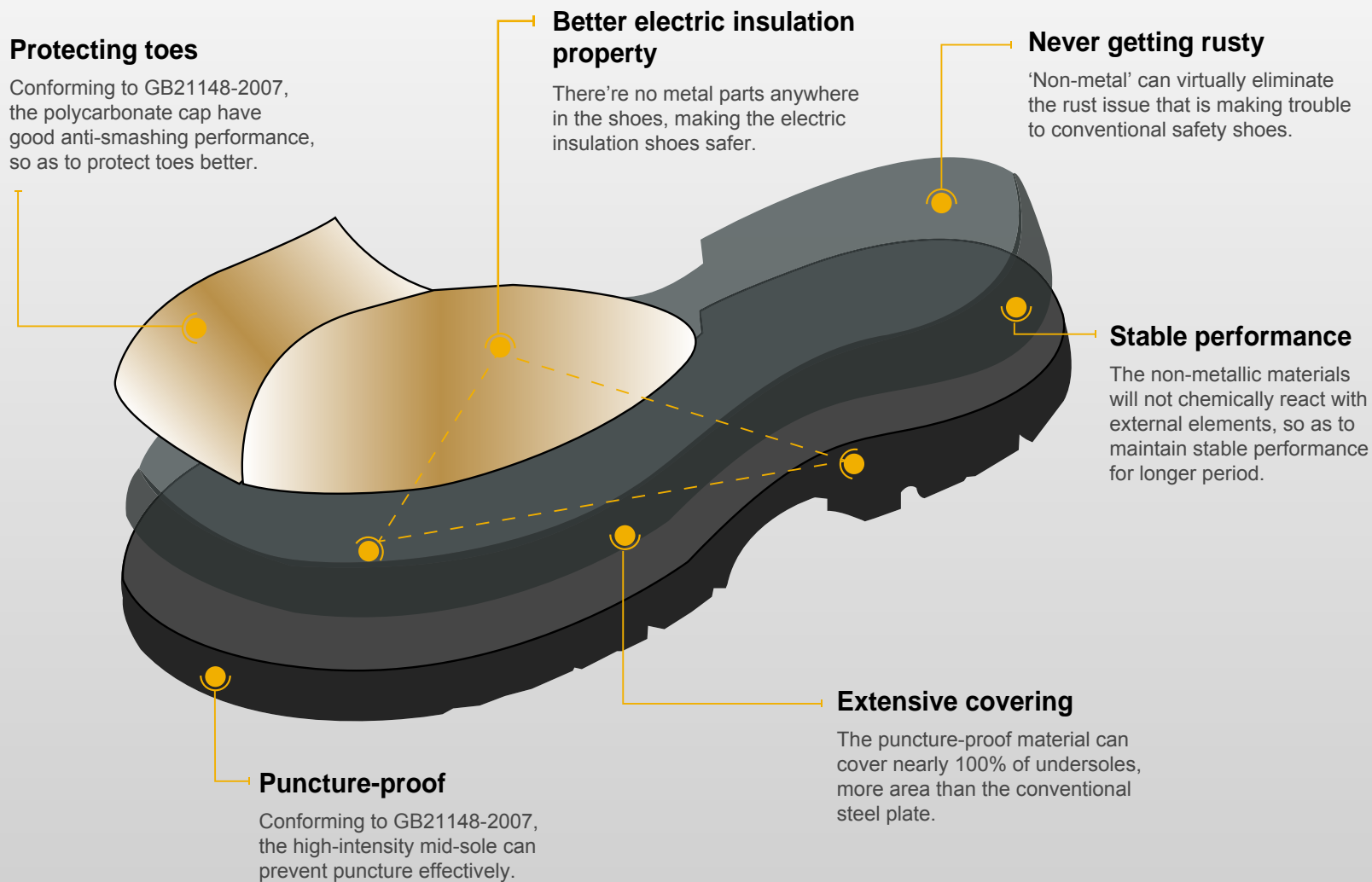




‘Non-metal’  
means being  
safer

15KN 静压





‘Non-metal’ means being  
**more comfortable**  
to wear



### Reduced temperate change inside shoes

Since the thermal conductivity of polycarbonate and high-intensity material is far smaller than that of metal, therefore, the new-type shoes can effectively reduce the influence of external temperature change on the temperature inside shoes.

### Sweat absorbing

High quality permeable mesh lining can perform well in absorbing sweat, so that the shoes will not feel stuffy and have unpleasant smell.

### Better fitting the foot shape

The puncture-proof mid-soles are flexible and easy-to-bend, so as to better fit the foot shape.

### Permeability

Holed + suede (cream) and suede + permeable mesh (grey) designs can enhance permeability and comfortability

### Wider cap

The non-metal cap is specially designed to be wider to better fit the foot shape of the Orientals and avoid squeezing feet.







# Non-metal means lighter weight

Non-metal cap and mid-sole contribute to superlight weight, over 20% lighter than conventional safety shoes.



# Non-metal means more convenience

Since non-metallic material is free from magnetism, you don't have to take off safety shoes when passing security-check.



**You don't  
need to take  
off non-met-  
al safety  
shoes.**



# More choices

French designed, latest European style, two colors and multiple-functions at your option



Cream color + holed  
+ suede



Grey color + suede  
+ permeable mesh

Order No.	Style	Product Name
SP2010901	Grey color	Lancer S1 anti-static, toe-protection safety shoes
SP2010902		Lancer S1P anti-static, toe-protection, puncture-proof safety shoes
SP2010903		Lancer CEI electric insulation, toe-protection safety shoes
SP2010911	Cream color	Lancer S1 anti-static, toe-protection safety shoes
SP2010912		Lancer S1P anti-static, toe-protection, puncture-proof safety shoes
SP2010913		Lancer CEI electric insulation, toe-protection safety shoes

# Product Technical Standard

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### Static-pressure withstanding test

Standard No.: GB21148-2007  
Main testing equipment: pressure tester  
Use 15kN pressure to test for one minute; the distance from undersole to plasticine for test shall be longer than 12.5 – 15 mm

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### Puncture-proof

Standard No.: GB21148-2007  
Conduct the puncture-proof test on four points of each shoe; the force to puncture through undersole shall not be less than 1100N

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### Anti-static

Standard No.: GB21148-2007  
After being adjusted in dry and humid environments respectively, the resistance shall remain at between 100 kΩ and 1000 MΩ

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### Electric insulation

Standard No.: LD12011-2009  
When the power-frequency test voltage is maintained at 6kV for 1 min, the leaked current shall be less than 1.8 mA

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### Impact resistance test

Standard No.: GB21148-2007  
Testing equipment: impact tester  
Use 23kg percussion hammer to impact from 90cm height; the distance from undersole to plasticine for test shall be longer than 12.5 – 15 mm

Min. space in the protection cap after impact	
Length of safety shoes (cm)	Min. space (mm)
≤ 225	≥ 12.5
230 ~ 240	≥ 13.0
245 ~ 250	≥ 13.5
255 ~ 265	≥ 14.0
270 ~ 280	≥ 14.5
≥ 285	≥ 15.0

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### European standard for antiskid test

**Personal protective equipment**  
**— Test methods for footwear**

Standard No.: EN ISO 20334:2004/ A1:2007

Testing Environment	Coefficient of Friction		Standard
	Front Sole	Heel	
Ceramic tile + SLS	≥ 0.28	≥ 0.32	SRA
Steel plate + glycerol	≥ 0.13	≥ 0.18	SRB

Since having passed the tests of two environments, the safety shoes are considered conforming to SRC, the most stringent standard for antiskid performance.