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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



### Protecting toes

Conforming to GB21148-2007, the polycarbonate cap have good anti-smashing performance, so as to protect toes better.

### Better electric insulation property

There're no metal parts anywhere in the shoes, making the electric insulation shoes safer.

### Never getting rusty

'Non-metal' can virtually eliminate the rust issue that is making trouble to conventional safety shoes.

### Stable performance

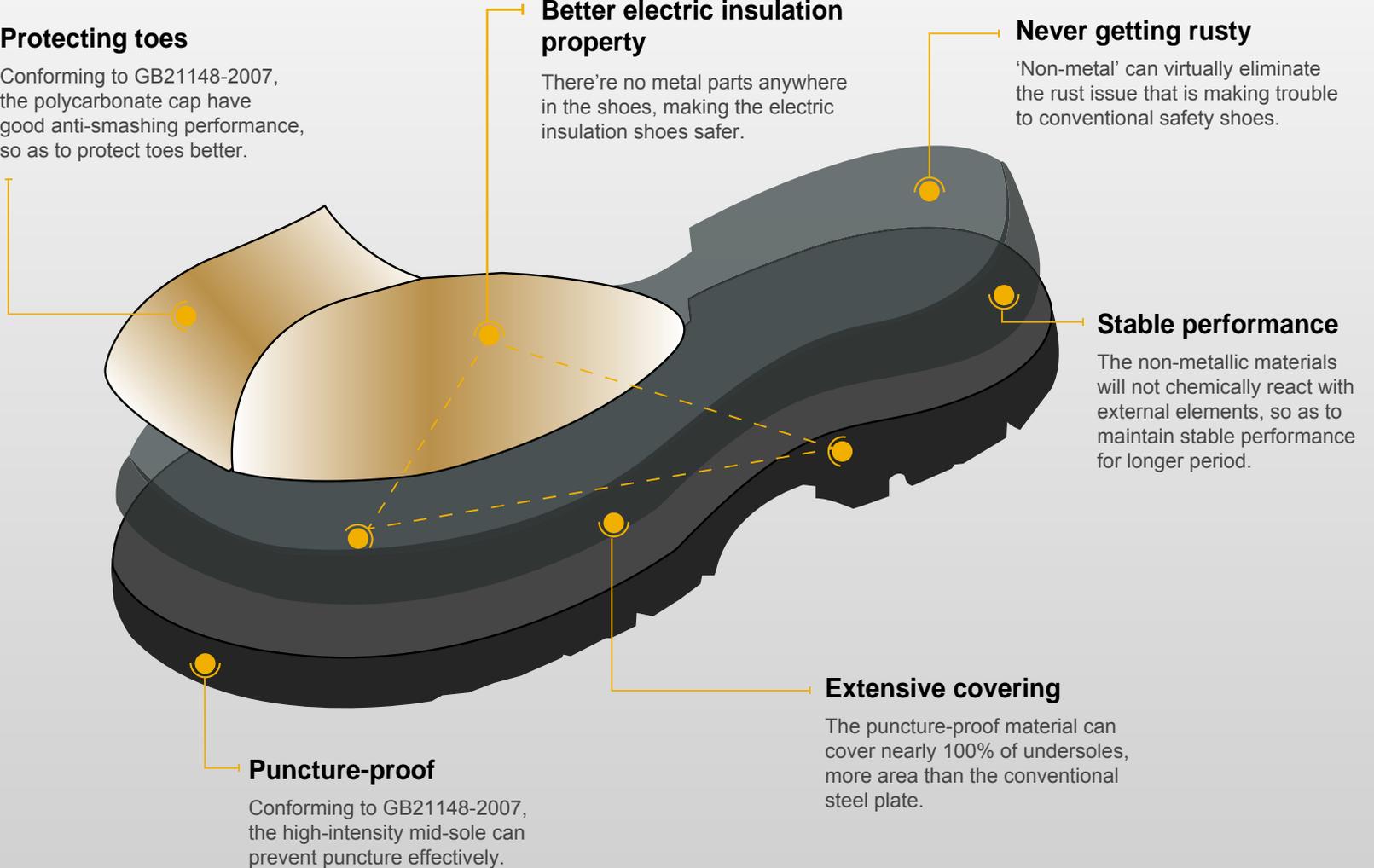
The non-metallic materials will not chemically react with external elements, so as to maintain stable performance for longer period.

### Extensive covering

The puncture-proof material can cover nearly 100% of undersoles, more area than the conventional steel plate.

### Puncture-proof

Conforming to GB21148-2007, the high-intensity mid-sole can prevent puncture effectively.



**'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

## 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

## 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

## 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

## 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

## 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

## 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.