

HILBURG

# SOME FEET DEMAND MORE PROTECTION

# INDUSTRIAL SAFETY SHOE CATALOGUE

# 2022 Edition





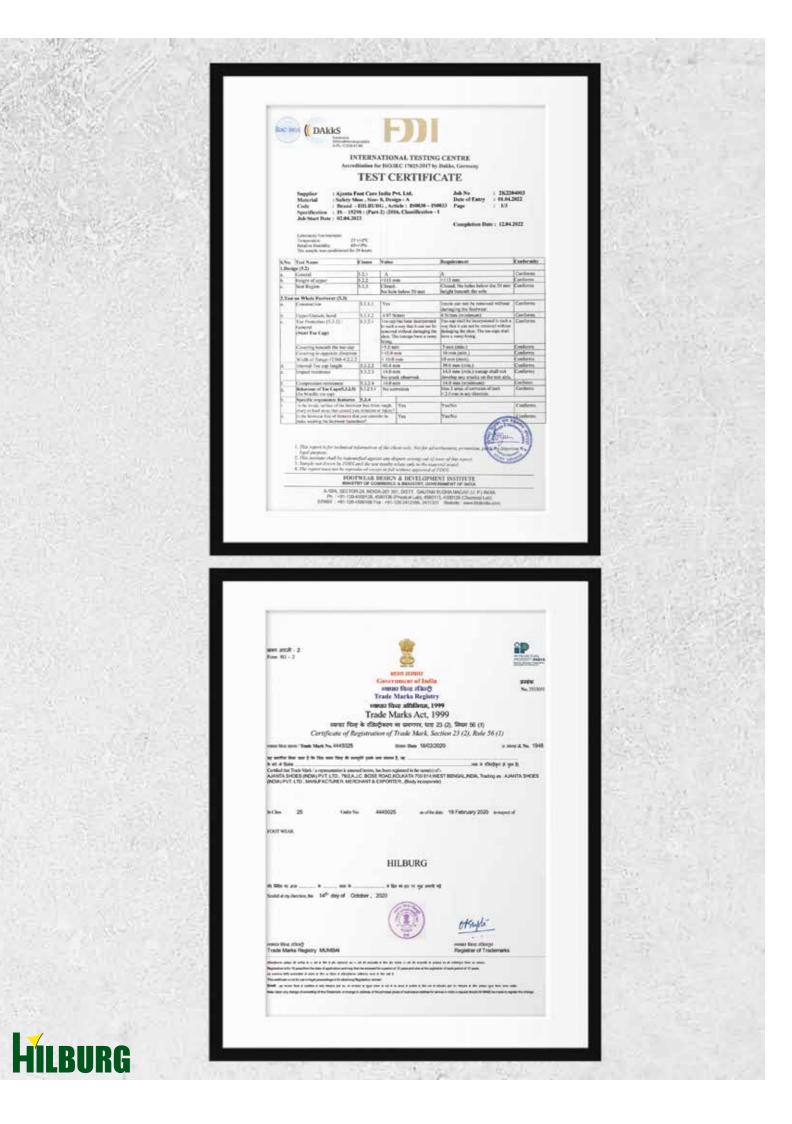
# HILBURG

Hilburg is the name that upholds the safety shoes division of Ajanta Shoes, a 66-year-old Indian footwear giant that owns unshaken trust in the industry for its quality standards. With 4 cutting-edge factory units in West Bengal and top class research and development facility, Ajanta is capable of meeting international standards in footwear.

Hilburg has a vision to contribute towards industrial safety both nationally and internationally. All Hilburg shoes can be uniquely customized according to the customer's needs. Besides conforming to the highest quality standards - which is validated by the ISO:9001 certificate - the company maintains the most stringent environmental norms in its production.



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# SAFETY FOOTWEAR STANDARDS

#### Footwear symbols for industrial usage

HILBURG

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Basic requirements/additional requirements/catagories e.g. for leather shoes	Safety footwear EN ISO 20345 or IS : 15298 : 2016 -PART II	Protective footwear EN ISO 20346 or IS : 15298 : 2018 -PART III
Basic requirements for shoes and impact resistance of toecaps	SB 200 Joule	PB 100 Joule
Additional requirements: Closed heel Antistatic Energy absorption around heel	S,	P
Additional requirements: Water penetration Water absorption	S <sub>2</sub>	P <sub>2</sub>
Additional requirements: As above, plus Penetration resistance Cleated outsole	S <sub>3</sub>	P <sub>3</sub>
Basic requirements for shoes and impact resistance	SB 200 Joule	PB 100 Joule

The choice of a particular shoe depends on the type of occupational risk. As with all the footwear, additional requirements may exist (e.g. in terms of heat and cold insulation, penetration resistance or electrical resistance via ESD). These shoes are then marked accordingly.

The testing principles for all basic and additional requirements are specified.

#### Additional requirements for special applications with corresponding symbols

SYMBOL	ICON	RISK COVERED EN ISO 20345:2004 or EN 345 (Or IS 15298 : 2016 P					
			SB	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	
		Basic	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Р		Penetration Resistance	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
A		Antistatic Footwear	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
E		Energy absorption around heel	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
ні		Heat insulation	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
CI		Cold insulation	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
WRU		Water resistance of upper	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
HRO		Heat resistance of outsole (+300°C)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
WRU		Whole shoe waterproof	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
М		Metatarsal protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
FO		Resistance to oil and petrol	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	

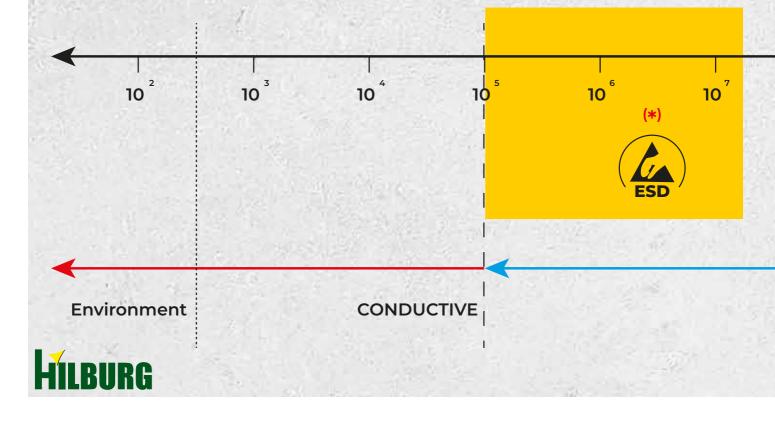
# UNDERSTANDING ESD

### WHAT IS Electrostatic Discharge (ESD)?

An electrical discharge due to the transfer of static electricity from one object to another is called Electrostatic Discharge. It can occur when two different materials come in contact. For e.g. electrical discharge can be generated by the rubbing of the body with synthetic clothing, by walking on synthetic floors, by unfurling of adhesive PVC tapes and so on.

### The Challenge:

Although not seen or felt, ESD can pose serious threats. The human body is pretty much like a walking Isolated Conductor, accumulating electrostatic charges constantly while performing everyday activities like walking around or rubbing themselves against different objects. The charges accumulated in the human body may have a very adverse impact on static sensitive electronic components, leading to electrical hazards and causing ignition of chemicals or explosives.

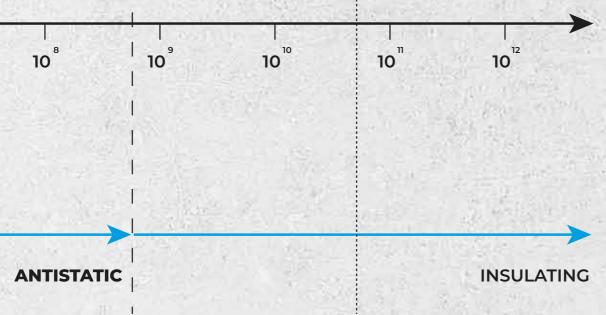


# UNDERSTANDING ESD

### **The Hilburg Solution:**

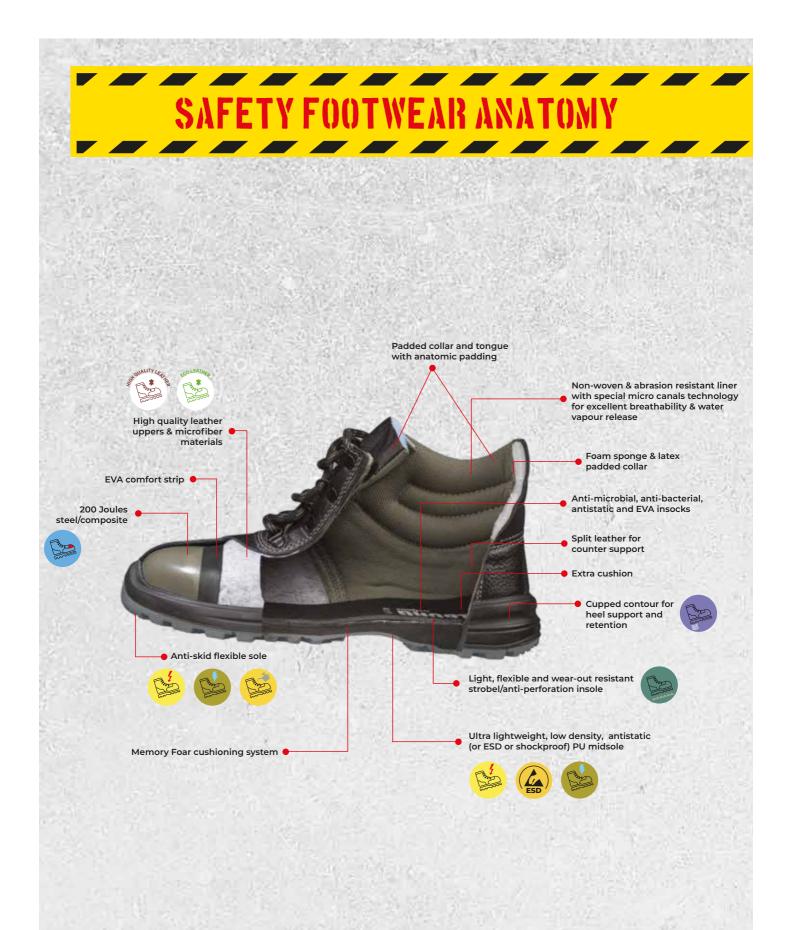
Equipped with additional shock absorption, the Hilburg ESD shoes with static dissipative soles having a resistance rating of 100 Meg Ohms (1 million Ohms) are an answer to this challenge. The static charges developed from the foot-leather friction get automatically discharged to the earth, thereby mitigating all ESD related risks. The Hilburg ESD shoes, having the role to protect sensitive electronic devices (not the operator) from electrostatic discharge,ensure high electrostatic dissipation in the following environments with:

- Electronically controlled machinery
- Assembly of microchips or transistors
- Clean rooms
- Chemical machinery
- Explosion risks



#### (\*) CEI EN 61340-5-1 ESD Standard

Following the norm the resistance towards ground has to be less than 35Mohm







# Low Ankle Single Density PU Sole

 Color Upper

Lining

• Toe

- : Black
- : Buff printed Leather with thickness up to 2.0mm
- : Non-woven, Mesh Lining
- : Steel Toe 200 J (±4)/Composite Toe (optional)
- Sole construction : Direct Injection process, PU SD sole
- Temperature : Up to 120°C for 1 minute
- Sole features : Anti-slip, oil and diluted acid resistance
- Size
- : 5-11
- Gender
- : Unisex









# Low Ankle Single Density PU Sole

: Non-woven, Mesh Lining

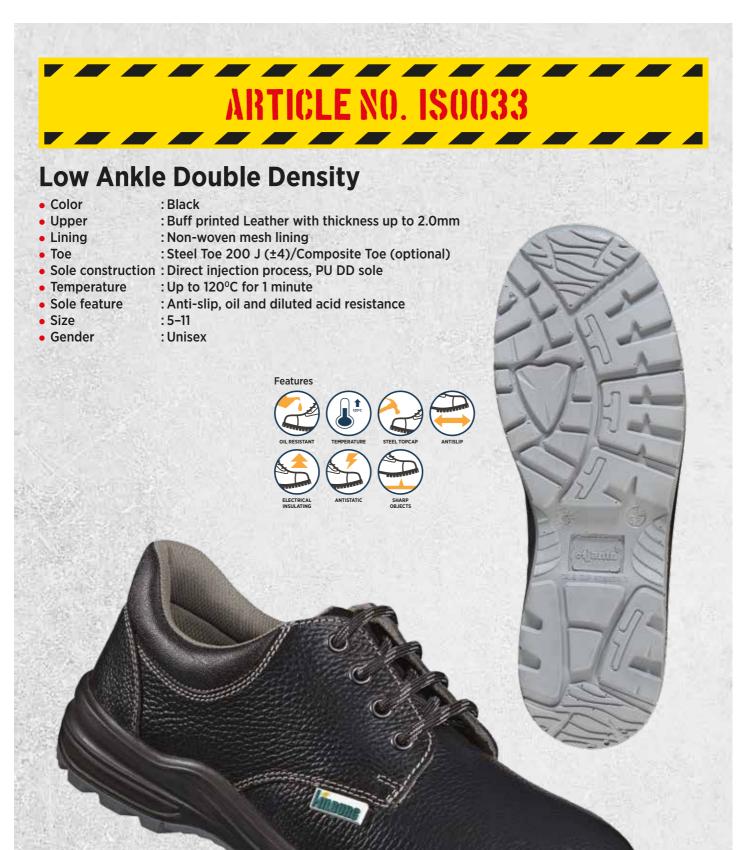
: Steel Toe 200 J (±4)/Composite Toe (optional)

- Color
- : Black : Buff printed Leather with thickness up to 2.0mm
- Upper
- Lining
- Toe
- Sole construction : Direct injection process, PU SD sole
- Temperature : Up to 120°C for 1 minute
- Sole features : Ai
  - ures : Anti-slip, oil and diluted acid resistance
- Size
- Gender
- : 5–11
- : Unisex



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DGMS

ENVIRONMEN





## **High Ankle Single Density PU Sole**

: Non-woven mesh lining

- Color
- Upper
- Lining
- Toe
- : Steel Toe 200 J (±4)/Composite Toe (optional)
- Sole construction : Direct injection process, PU SD sole Temperature
- : Up to 120°C for 1 minute • Sole feature

: Black

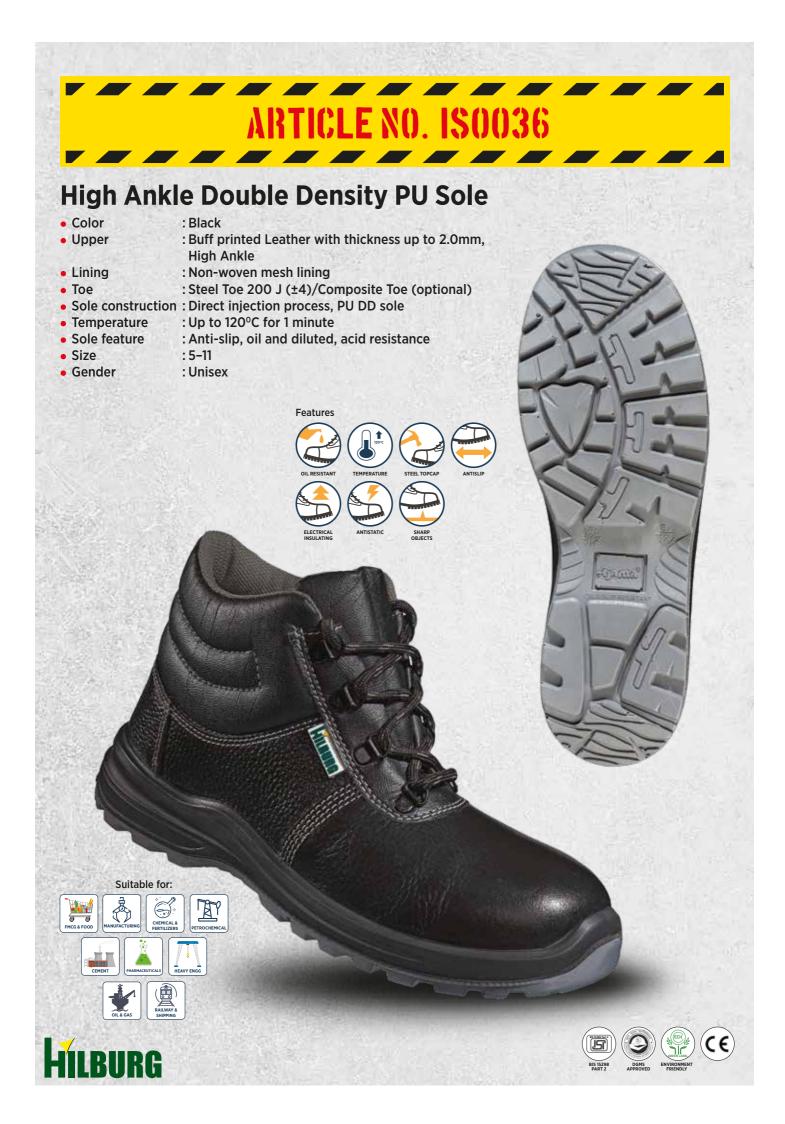
- : Anti-slip, oil and diluted acid resistance
- Size • Gender
- : 5-11 : Unisex

: Buff printed Leather with thickness up to 2.0mm,

Features





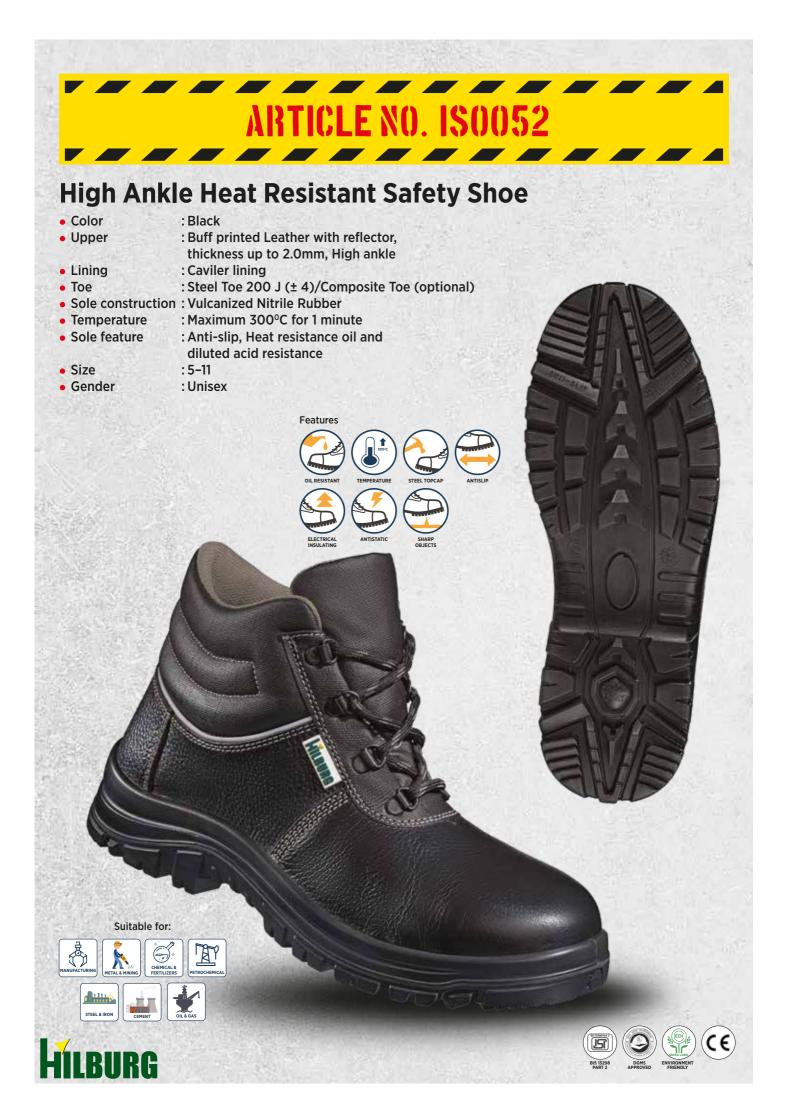


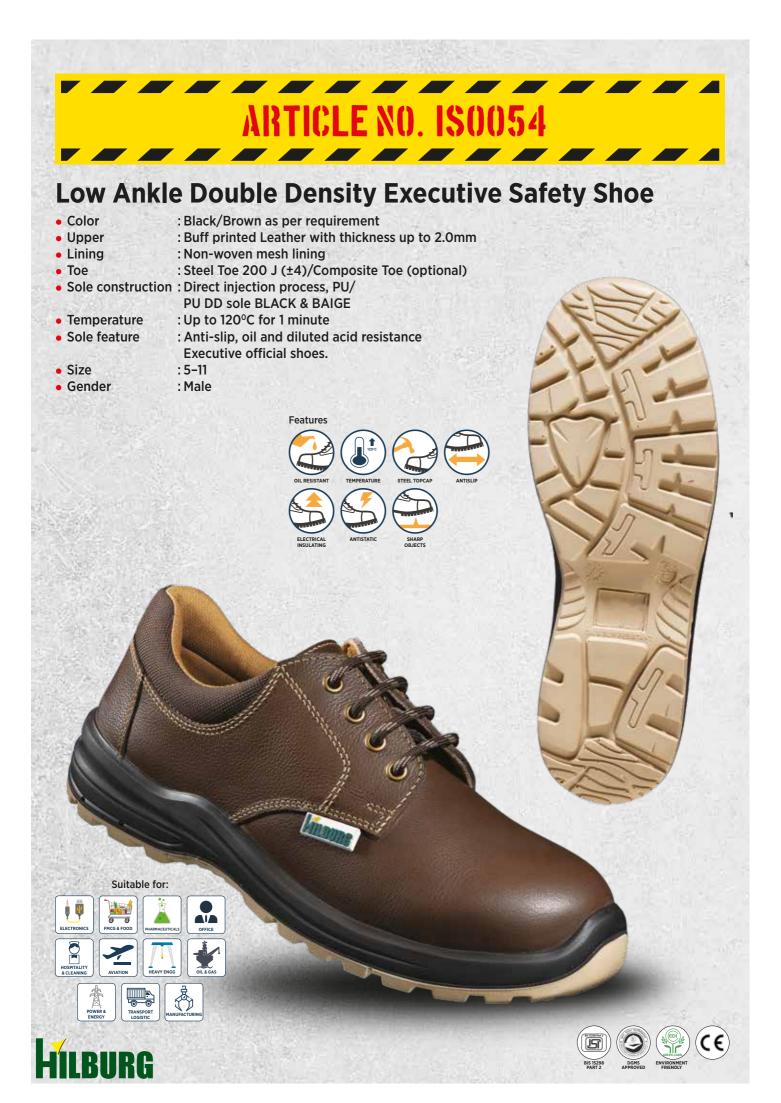


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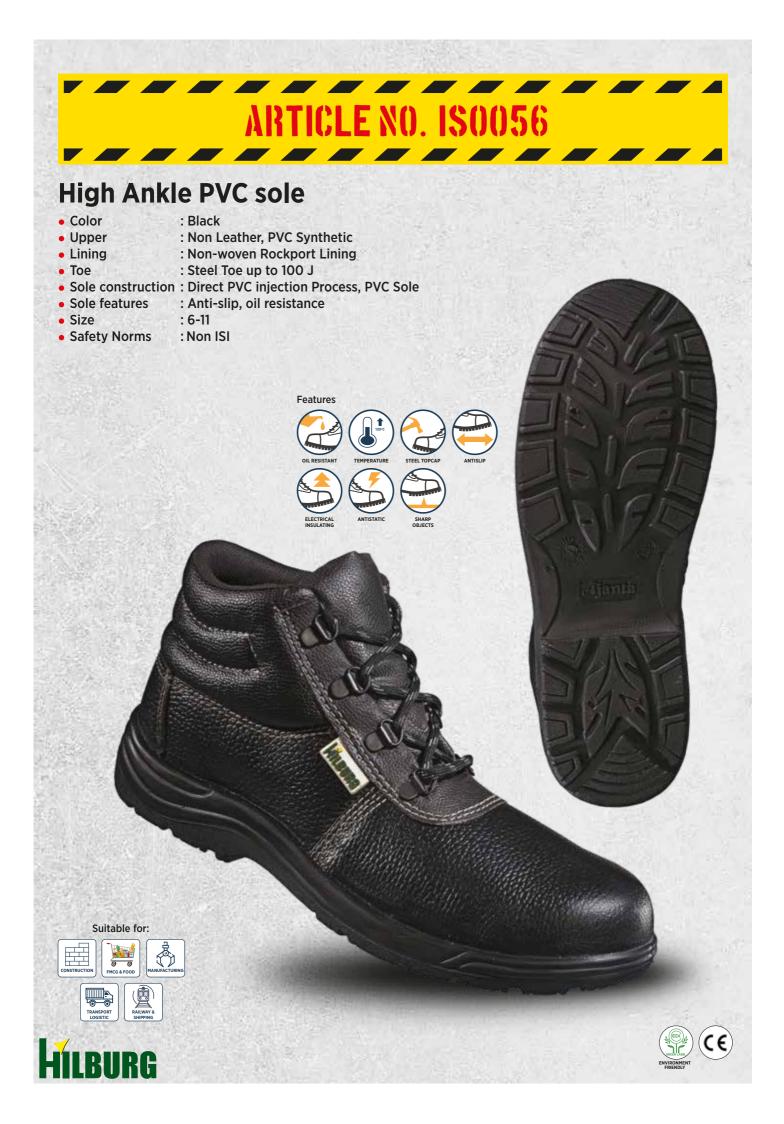
## Low Ankle PVC Sole

- Color
- : Black : Non Leather, PVC Synthetic
- Upper
- LiningToe
- : Non-woven Rockport Lining
- : Steel Toe up to 100 J
- Sole construction : Direct PVC injection Process, PVC Sole
- Sole features : Anti-slip, oil resistance
- Size
- : 6-11
- Safety Norms
- : Non ISI



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# **Low Ankle Formal Shoe**

- Color : Black
- Upper : Leather
- Sole construction : PU SD sole
- Size
- : 5-11 : Non-BIS
- Safety Norms



# FITTING GUIDELINES SIZE

- 1. Measure both feet as they might not be necessarily of the same size
- 2. Allow enough wiggle room for the toes
- 3. Try on both shoes before choosing, and walk in them to check comfort
- 4. Comfort and proper fitting of safety shoes is critical
- 5. It's a misconception that safety shoes, especially with protective toe caps, are uncomfortable; proper padding and fitting prevent you from feeling the toe caps at all

Size Corresponence table									
France	39	40	41	42	43	44	45	46	47
UK	6	61/2	7	8	9	10	101/2	11	12
US	7	71/2	8	9	10	101/2	11	12	13
Cm	25.9	26.6	27.3	27.9	28.6	29.3	29.9	30.6	31.3

#### IS STANDARDS IN FOOTWEAR

**HILBURG** 

- IS: 12254: 1993 PVC Industrial Boot
- IS: 15298: 2016 Part II Personal Protective Equipment -Leather Safety Footwear
- IS: 15298: 2018 Part III Personal Protective Equipment -**Leather Protective Footwear**
- IS: 15298: 2017 Part IV Personal Protective Equipment Jungle Boots
- IS: 5557: 2004 Type I & II Industrial and Protective Safety Rubber **Knee Boots**
- IS: 5557: 2018 Part II Industrial and Rubber Knee Boots
- IS: 3976: 2018 Protective Rubber canvas Boots for Miners



SECTORS





# ISO 9001: 2015 Certified Company AJANTA SHOES (INDIA) PVT.LTD.

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