

TECHNICAL DATA SHEET



FIREMAN AXE

Product Overview: The Fireman Axe is a vital tool in firefighting operations, designed for durability, reliability, and safety. Its robust construction ensures high performance in critical scenarios, such as smashing windows or doors to gain entry, chopping holes in roofs for ventilation, or cutting through obstructions during emergencies. It is tested to withstand high voltage up to 20,000 volts, ensuring safety during operations near electrical hazards.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Fireman Axe
Reference Standard	IS:926



2. TECHNICAL SPECIFICATIONS :-

Axe Head Material	Carbon steel, conforming to IS 3748
Handle Material	Rubber-molded steel
Length	0.4 meters (400 mm)
Weight	1.3 kilograms (Approx.)
Voltage Capacity	Tested to withstand up to 20,000 volts
Standard Compliance	IS 926

3. PERFORMANCE STANDARDS :-

- Impact Resistance – Tested to endure high-impact forces without deformation.
- Electrical Insulation – Certified to withstand 20,000 volts under live testing conditions.
- Corrosion Resistance – Carbon steel head treated for resistance to rust and environmental factors.
- Handle Durability – Rubber-molded handle tested for wear and slip resistance during extended operations.

4. PERFORMANCE TESTING :-

- Drop Testing – The axe is subjected to multiple drops from a height of 3 meters to test durability and impact resistance.
- High Voltage Testing – Exposed to 20,000 volts to confirm electrical insulation safety.
- Material Hardness Test – Carbon steel head tested for hardness per IS 3748 standards.
- Grip Testing – Handle grip tested under wet and dry conditions for non-slip performance.

5. APPLICATIONS :-

- Breaking windows, doors, or barriers during emergency rescues.
- Chopping roofs for ventilation in fire incidents.
- Clearing obstacles or debris in rescue operations.
- Ensuring safety in environments with high-voltage risks.

6. CERTIFICATIONS :-

- IS 926 Certification – Compliance with Indian Standards for fire fighting tools.
- High Voltage Certification – Tested and certified for electrical insulation up to 20,000 volts.

7. WARRANTY :-

12 Months from the date of purchase. Covers manufacturing defects under normal usage conditions.
Wear and tear or improper use not covered under warranty.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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