

TECHNICAL DATA SHEET



FIRE HOSE PIPE/RRL HOSE PIPE – STAINLESS STEEL

Product Overview: The Fire Hose Pipe Type-A, supplied by Palladium Safety Solutions Pvt. Ltd., is one of the most trusted and widely used fire hoses by firefighting professional. This hose is built with Rubber Reinforced Lining (RRL) Technology, which enhances its durability and efficiency. The RRL design incorporates textile reinforcements, making it structurally similar to a double-jacketed hose. These hoses are designed to withstand high pressure, ensuring optimal performance during firefighting operations. This product adheres to IS 636 standards, reflecting its compliance with stringent safety and quality benchmarks.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Hose Pipe RRL Type-A
Model No.	PSS-HRPSS
Reference Standard	IS:636



2. GENERAL SPECIFICATIONS :-

Material	Rubber Reinforced Lined (RRL) Hoses
Nominal Diameter	63mm (2.5 inches)
Standard Length	15 meters (Custom length available)
Coupling Material	Stainless Steel (LTB-2 grade)
Binding Wire	Copper or Galvanized Iron (G.I)
Standard Compliance	IS:636
Colour	White (with branding).

3. PERFORMANCE SPECIFICATIONS :-

Working Pressure	Rated up to 10.24 kg/cm ²
Bursting Pressure	Tested up to 35.7 kg/cm ²
Operating Temperature	(-)10°C to (+)70°C
Abrasion Resistance	High, designed for rough surfaces
Tensile Strength	Exceptional tensile strength to prevent breakage under extreme pressure.

4. KEY FEATURES :-

Advanced Reinforcement : Built with RRL Technology, the hose features a textile-reinforced lining that offers superior strength, flexibility, and resistance to wear and tear.

High Pressure Handling : Designed to operate effectively under high-pressure conditions, ensuring efficient water flow during firefighting operations.

Durable Couplings : Equipped with Stainless Steel LTB-2 Couplings, which provide corrosion resistance and a secure fit, ensuring no leakage or disconnection during use.

Compliant with International Standards : Certified under IS 636, ensuring adherence to globally recognized safety and quality standards.

5. APPLICATIONS :-

Firefighting Operations : Ideal for use in residential, commercial, and industrial firefighting scenarios.

Emergency Services : Trusted by emergency response teams for quick deployment.

Portable and Fixed Systems : Compatible with portable fire pumps, hydrants, and mounted systems

Hazardous Environments : Effective in chemical plants, oil refineries, and other high-risk locations.

6. PERFORMANCE TESTING :-

Hydraulic Pressure Test : The hose has been rigorously tested under 10.24 kg/cm² working pressure to ensure consistent and safe water flow.

Bursting Pressure Test : Withstood a maximum bursting pressure of 35.7 kg/cm², demonstrating its ability to handle sudden pressure surges.

Temperature Tolerance Test : Tested to operate efficiently between (-)10°C to (+)70°C, making it reliable in extreme heat or cold conditions.

7. CERTIFICATIONS AND COMPLIANCE :-

IS 636 Certified : Complies with the Indian Standard for firefighting hoses, ensuring quality and performance.

Pressure Tested : Each hose is factory-tested to meet hydraulic and bursting pressure standards.

8. PACKAGING AND DELIVERY :-

Each hose is securely rolled and packed in a reinforced, weather-resistant container to prevent damage during transportation.

Stainless Steel Couplings are pre-attached and secured to ensure the hose is ready for immediate use upon delivery.

9. WARRANTY :-

The hose comes with a 1-year manufacturing defect warranty, ensuring customer satisfaction.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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