

TECHNICAL DATA SHEET



FIRE HOSE PIPE/RRL HOSE PIPE – GUN METAL

Product Overview: The Fire Hose Type – A, supplied by Palladium Safety Solutions Pvt. Ltd., is one of the most trusted and widely used fire hoses in industrial, commercial, and municipal firefighting sectors. This hose is manufactured with Rubber Reinforced Lined (RRL) Technology, which includes a durable rubber lining and additional synthetic textile reinforcement. The hose is equipped with Gun Metal couplings, offering excellent resistance to corrosion, abrasion, and high pressure. Designed as per IS 636 – Type A, this hose is ideally suited for all types of firefighting operations.

1. GENERAL DATA :-

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



2. GENERAL SPECIFICATIONS :-

Material Construction	Rubber Reinforced Lined (RRL) Hose
Nominal Diameter	63mm (2.5 inch)
Standard Length	15 meters (customizable on request)
Coupling Type	Gun Metal Coupling (LTB-2 as per IS 318)
Binding Wire	Copper or Galvanized Iron (GI) Wire
Hose Colour	White with red branding
Lining Type	High-grade synthetic rubber
Reinforcement	Woven synthetic textile

3. PERFORMANCE SPECIFICATIONS :-

Hydraulic Test Pressure	Tested up to 10.24 kg/cm ²
Bursting Pressure	Up to 35.7 kg/cm ²
Temperature Range	-10°C to +60°C
Tensile Strength	High tensile strength textile yarn used
Friction Loss	Low-suitable for long distance applications
Coupling Strength	Gun Metal coupling is impact and pressure-resistant

4. KEY FEATURES :-

- **Advanced Reinforcement :** Built with RRL Technology, the hose features a woven self-extinguishing textile reinforcement offering enhanced tensile and mechanical strength.
- **High Pressure Handling :** Designed to operate effectively under high-pressure conditions, ensuring optimum water flow during emergency operations.
- **Durability :** Excellent resistance to abrasion, chemicals, UV rays, and weathering.

- **Corrosion Resistant Coupling** : Gun Metal coupling resist corrosion even in extreme weather and saline environments.
- **Low Maintenance** : Smooth inner lining prevents scale buildup and ensures low friction loss.
- **Flexibility** : Flexible enough for fast deployment and retraction even in congested areas.

5. APPLICATIONS :-

- **Fire fighting 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 (+)60°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.

Gun Metal 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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