Frozenfire Fire Hose Pipe

Overview

Frozenfire Fire Hose Pipes are designed and manufactured to deliver dependable water and foam transfer for firefighting applications under demanding operating conditions. Available in Type A (Canvas), Type 2 Elastomeric Lined, and Type B (Rubber Lined) constructions, these hoses are engineered to provide superior flexibility, high burst strength, excellent abrasion resistance, and long service life.

Manufactured in accordance with applicable national and international fire safety standards, Frozenfire Fire Hose Pipes are suitable for municipal fire brigades, industrial firefighting systems, petrochemical plants, refineries, airports, marine installations, commercial buildings, warehouses, and emergency response vehicles.

Type A Fire Hose (Canvas)

Product Description

The Frozenfire Type A Fire Hose is a woven jacketed, canvas hose primarily intended for water delivery in general firefighting and emergency applications. Manufactured from high-strength synthetic yarn, the hose is lightweight, flexible, and easy to handle. It is particularly suitable for temporary water transfer, forestry firefighting, irrigation, and emergency response where portability is essential.



Features

- Lightweight and highly flexible
- High tensile synthetic woven jacket
- Excellent handling characteristics
- Easy rolling and storage
- Good abrasion resistance
- Weather-resistant construction
- Suitable for water transfer applications
- Economical and durable

Applications

- Fire Brigade Operations
- Water Transfer
- Forestry Fire Fighting
- Agriculture
- Irrigation
- Construction Sites
- Emergency Water Supply

Construction

- Jacket : High Tenacity Polyester Yarn
- Inner Lining : One layer rubber
- Weave : Circular Woven Jacket
- Colour : White / Yellow / Red /Blue (Optional)

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Type 2 Fire Hose (Elastomeric Lined)

Product Description



The Frozenfire Type 2 Fire Hose features a elastomeric lining permanently bonded to a high-strength woven polyester jacket. This construction provides exceptional flexibility, excellent resistance to ozone, ageing, abrasion, and weathering while maintaining low frictional losses for efficient water delivery.

The elastomeric lining prevents leakage and ensures long-term durability even under repeated pressurization.

Features

- Seamless elastomeric lining
- Extremely flexible in all weather conditions
- Low friction hydraulic flow
- High abrasion resistance
- Excellent ozone resistance
- UV resistant
- Mildew resistant
- Rot and fungus resistant
- Lightweight construction
- Easy maintenance
- Long service life

Construction

- Jacket : Circular Woven Polyester
- Inner Lining : Elastomeric
- Bonding : Permanent Adhesion
- Outer Surface : Abrasion Resistant

Advantages

- Very low pressure loss
- Excellent flexibility
- Leak-proof construction
- Superior durability
- Easy cleaning
- Long operational life
- High burst pressure

Applications

- Municipal Fire Brigades
- Industrial Fire Systems
- Refineries
- Petrochemical Plants
- Airports
- Fire Vehicles
- Commercial Buildings
- Marine Fire Protection

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Type B Fire Hose (Rubber Lined)

Product Description

The Frozenfire Type B Fire Hose is a heavy-duty, rubber-lined firefighting hose specifically designed for demanding industrial and municipal firefighting operations. The seamless synthetic rubber lining provides excellent hydraulic efficiency while the high-strength woven polyester outer jacket offers superior resistance to abrasion, heat, chemicals, and mechanical damage.

Designed for continuous service under high operating pressures, Type B hoses are ideal for permanent fire protection installations and emergency firefighting systems.



Features

- Seamless synthetic rubber lining
- Heavy-duty woven polyester jacket
- Excellent abrasion resistance
- High operating pressure capability
- Outstanding flexibility
- Excellent resistance to ageing
- Weather resistant
- UV resistant
- Low maintenance
- Long service life

Construction

- Jacket : High Tenacity Polyester
- Inner Tube : Synthetic Rubber
- Outer Jacket : Woven Polyester
- Couplings : SS / Gunmetal / Aluminium (Optional)

Advantages

- Very high burst strength
- Excellent hydraulic performance
- Superior resistance to wear
- Long operational life
- Reliable under harsh environments
- Suitable for industrial firefighting

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Applications

- Oil & Gas Facilities
- Petrochemical Plants
- Chemical Industries
- Steel Plants
- Thermal Power Stations
- Airports
- Marine Installations
- Fire Vehicles
- Industrial Fire Hydrant Systems
- Municipal Fire Services

Typical Technical Specifications

Parameter	Type A	Type 2 (Elastomeric)	Type B
Construction	Canvas	Elastomeric Lined	Rubber Lined
Jacket Material	Polyester	Polyester	Polyester
Inner Lining	One Layer Synthetic Rubber	Thermoplastic Elastomer	Three Layered Synthetic Rubber
Standard	IS: 636, ISI MARK	IS: 636, ISI MARK	IS: 636, ISI MARK
Standard Sizes	38, 50, 63, 70, 75, 100 mm	38, 50, 63, 70, 75, 100 mm	38, 50, 63, 70, 75, 100 mm
Standard Length	7.5, 15, 20, 30 m	7.5, 15, 20, 30 m	7.5, 15, 20, 30 m
Working Pressure	Up to 10–16 Bar	Up to 16 Bar	Up to 16–20 Bar
Burst Pressure	Up to 24 Bar	Up to 34 Bar	Up to 42 Bar
Temperature Range	-10°C to +70°C	-20°C to +80°C	-30°C to +90°C
Couplings	SS / Gunmetal / Aluminium	SS / Gunmetal / Aluminium	SS / Gunmetal / Aluminium
Couplings Standard	IS:903, ISI MARK	IS:903, ISI MARK	IS:903, ISI MARK

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Operation Procedure

1. Inspect the hose and couplings before use.
2. Connect the hose securely to the hydrant valve, monitor, or pump outlet.
3. Ensure all couplings are properly locked.
4. Gradually open the water supply to avoid water hammer.
5. Straighten the hose to prevent kinking during operation.
6. Direct water through the branch pipe or nozzle onto the fire.
7. After use, close the water supply slowly and drain the hose completely.
8. Clean and dry the hose before storage.

Maintenance Procedure

- Inspect the hose after each use for cuts, abrasion, punctures, or damage.
- Check couplings, gaskets, and locking mechanisms regularly.
- Wash the hose with clean water after use, especially after exposure to chemicals, saltwater, or foam concentrate.
- Dry the hose completely before rolling and storing.
- Store in a cool, dry, and well-ventilated location away from direct sunlight.
- Avoid dragging the hose over sharp edges or rough surfaces.
- Conduct periodic hydrostatic pressure testing as recommended by applicable standards.
- Replace damaged hoses or couplings immediately to maintain system reliability.

Frozenfire Quality Assurance

Frozenfire Fire Hose Pipes are manufactured under stringent quality control procedures using premium-grade materials and are subjected to hydrostatic testing, burst pressure testing, adhesion testing, dimensional inspection, flexibility testing, and visual quality checks before dispatch. Designed for dependable performance, durability, and ease of handling, Frozenfire hoses provide a reliable solution for industrial, commercial, municipal, and marine firefighting applications.

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