



# FIRE STOP®

A rugged all synthetic non-percolating forestry hose.



## Applications

- Forestry and industrial applications hose
- Wildland brush fire truck attack hose
- Cottage and forestry home values protection hose

## Features and Benefits

- Tough and ready for action and light in weight
- Spun yarn jacket for superior abrasion resistance
- Unique Mertex® lining
- Premium all synthetic single jacket
- Available with Permatek HP™ treatment against abrasion, moisture pick up and mildew
- Resistant to most chemicals, petrol products, ozone and U.V. exposure, hydrolysis, rot and mildew
- Meets or exceeds all performance requirements of NFPA 1960 (1961), Underwriters Laboratories and Factory Mutual
- Meets or exceed all performance requirements of U.S.D.A. spec 5100-187C Type II for 1" (25mm) and 1 1/2" (38mm), when coated

## DIAMETERS

- 1.00in/25mm
- 1.50in/38mm
- 1.75in/44mm

| Hose Spec | Trade Size |    | Bowl Size |    | Weight Un-coupled<br>100'(30.5M) |     | Coil Diameter<br>100'(30.5M) |      | Service Pressure |       | Proof Pressure |       | Burst Pressure |       |
|-----------|------------|----|-----------|----|----------------------------------|-----|------------------------------|------|------------------|-------|----------------|-------|----------------|-------|
|           | In.        | mm | In.       | mm | LBS                              | Kg  | In.                          | Cm.  | PSI              | kPa   | PSI            | kPa   | PSI            | kPa   |
| 740       | 1.00       | 25 | 1 5/32    | 29 | 8.6                              | 3.9 | 16.0                         | 40.6 | 300              | 2 070 | 600            | 4 140 | 1 000          | 6 900 |
| 741       | 1.50       | 38 | 1 11/16   | 43 | 13.0                             | 5.9 | 16.0                         | 40.6 | 300              | 2 070 | 600            | 4 140 | 1 000          | 6 900 |
| 742       | 1.75       | 44 | 1 7/8     | 48 | 14.8                             | 6.7 | 16.0                         | 40.6 | 300              | 2 070 | 600            | 4 140 | 1 000          | 6 900 |

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# HOW TO SPECIFY **FIRE STOP**<sup>®</sup>

THE HOSE SHALL BE SINGLE JACKET WITH A SERVICE TEST PRESSURE OF 300 PSI / 2070 KPA.

## JACKET

The jacket shall be made with virgin spun polyester warp yarn and a filament polyester weft yarn and shall have a minimum filler (weft) yarns of 10.4 per inch (409 per Meter).

When requested the jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion.

## LINING

The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway. Fire hose made using adhesives of any type do not meet this specification. The lining shall be approved for use with potable water.

## ADHESION

The adhesion shall be such that the rate of separation of a 1 1/2" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

## SERVICE, TEST, BURST PRESSURES

Minimum service, test and burst pressures shall be as detailed in the specification table on the previous page.

## FLOW AND FRICTION LOSS

The 1 1/2" (38 mm) hose shall be capable of flowing 70 US GPM (264 LPM) with a maximum pressure loss of 10 PSIG (69 kPa) per 100' (30.5M).

## KINK TEST

A full length will withstand a hydrostatic pressure of 600 psi / 4140 kPa while kinked.

## WEIGHT

Each length of fire hose shall not weigh more than indicated in the specification table.

## COUPLING SPECIFICATIONS

Couplings shall be in conformance with the current NFPA standard and made of extruded aluminum, hard coated a minimum of .002" thick. They shall be manufactured in North America and permanently labeled with country of origin.

The hose shall be available with threaded and quarter-turn threadless (QC) couplings. When quarter-turn threadless (QC) couplings are specified they shall have extended lugs to facilitate rapid connect and disconnect.

## MANUFACTURE

Both hose and couplings must be manufactured in North America. Couplings must be USMCA compliant.

## STANDARDS

Fire hose manufactured to this specification shall meet or exceed all performance requirements of NFPA 1960 (1961), Underwriters Laboratories and Factory Mutual.

When coated it shall meet or exceed USDA Spec 5100-187C Type II for 1" (25mm) and 1 1/2" (38mm).