

HI-TECH

HI-TECH 600™

SPECIFICATION FOR

1", 1-1/2", 1-3/4", 2-1/2" & 3"

NITRILE COVERED MUNICIPAL FIRE HOSE

NORTH AMERICAN FIRE HOSE

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NITRILE COVERED FIRE HOSE SPECIFICATIONS
SIZES 1". 1-1/2", 1-3/4", 2-1/2" & 3"

SCOPE: The hose manufactured to this specification, shall be a premium quality, abrasion resistant, chemical resistant attack grade fire hose, designed for prolonged storage and ease of maintenance. This nitrile covered hose shall be manufactured with a 100% synthetic reinforcement, encompassed in synthetic nitrile rubber, using a through the weave extrusion process, resulting in a one piece construction.

COMPLY _____ EXCEPTION _____

REINFORCEMENT: The hose reinforcement (Jacket) shall be woven of 100% synthetic, high tensile yarn so as to eliminate left hand twist.

COMPLY _____ EXCEPTION _____

LINING/COVER: The lining and cover shall consist of synthetic nitrile rubber, compounded to provide maximum adhesion to the reinforcement when applied by a through the weave extrusion process.

COMPLY _____ EXCEPTION _____

FINISHED HOSE: The finished hose shall have ribbed patterns on the outside to aid in ease of handling.

COMPLY _____ EXCEPTION _____

LINING/COVER PROPERTIES: The tensile strength of the lining/cover rubber shall be not less than 1750 PSI.
The elongation of the lining/cover rubber shall be not less than 500%.

COMPLY _____ EXCEPTION _____

ABRASION RESISTANCE: The finished hose shall withstand 18,000 cycles on the Taber Abraser using H22 wheels and 2,000 gm total load without any exposure of the synthetic reinforcement.
The finished hose shall withstand 24,000 cycles on the Taber Abraser using H22 wheels and 2,000 gm total load without damage to the synthetic reinforcement.

COMPLY _____ EXCEPTION _____

COLD RESISTANCE: The finished hose shall have a capability of use down to -36 F. The hose shall sustain no damage to cover, reinforcement or liner when subjected to the following cold bending test. A 50 foot length of dry hose, firmly coiled, shall be placed in a cold box at -36 F., for a duration of 24 hours. Immediately after removal, the hose shall be uncoiled and laid out by one operator.

COMPLY _____ EXCEPTION _____

ENVIRONMENTAL PROTECTION: The finished hose shall show no signs of cracking of the liner or cover when tested in accordance with ASTM D-1149-64 (R1970), ASTM D-518 Procedure B, 100 pphm/118 F/70 hours.

COMPLY _____ EXCEPTION _____

CHEMICAL RESISTANCE: The finished hose shall not be degraded from exposure to sea water or most chemical substances such as hydrocarbons, oils, alkali, acids and grease.

COMPLY _____ EXCEPTION _____

HEAT RESISTANCE: When pressurized to 100 PSI, the finished hose shall be capable of withstanding a surface temperature of 1200 F for a minimum of two minutes without bursting.

COMPLY _____ EXCEPTION _____

HYDROSTATIC TESTS: All hydrostatic tests conducted to determine twist, warp, rise and including acceptance tests, burst tests and kink tests, shall be in accordance with NFPA 1961 Standard For Fire Hose (Latest Edition), for 600 PSI Acceptance Test Fire Hose.

COMPLY _____ EXCEPTION _____

HOSE DATA CHART

HOSE SIZE	ACCEPTANCE TEST PSI	SERVICE TEST PSI	AVG. WEIGHT 50' COUPLED	AVG. COIL DIAMETER 50' COUPLED
1"	600 PSI	300 PSI	10 LBS	18"
1-1/2"	600 PSI	300 PSI	16 LBS	18"
1-3/4"	600 PSI	300 PSI	18 LBS	19"
2-1/2"	600 PSI	300 PSI	27 LBS	22"
3"	600 PSI	300 PSI	35 LBS	24"

COMPLY _____ EXCEPTIONS _____

HOSE COLOR: Color to be specified, (Yellow or Red), at time of order.

COMPLY _____ EXCEPTION _____

COUPLINGS: Couplings shall be lightweight, hardcoated, or cast brass and shall be in compliance with NFPA 1963 Latest Edition.

COMPLY _____ EXCEPTION _____

MARKINGS: Each length of hose shall be indelible marked in letters and figures at least 1" high. Markings shall be in accordance with NFPA 1961 Standard For Fire Hose (Latest Edition).

COMPLY _____ EXCEPTION _____

WARRANTY:

The manufacturer shall assure, the fire hose proposed shall meet the requirements and specifications as herein set forth. The manufacturer shall also, as part of their proposal, warranty such fire hose for a period of (1) year from date of shipment, against failure due to defects in material or workmanship. During the warranty period, any fire hose removed from service for the above mentioned defect shall be repaired or replaced free of charge to the customer.

Complete detailed specifications, along with a 12 inch sample of the hose proposed to meet this specification, shall be submitted with the hose bid.