



**MATEX**  
hose



## FEATURES

- Nitrile/PVC through-the-weave rubber covered construction
- Good resistance to abrasion in standard rib
- Excellent resistance to abrasion in HD rib
- Superior Heat Resistance

- High resistance to oil, gasoline, and a wide range of chemicals
- Lightweight hose, remaining flexible even at low temperatures
- Diameters: 1", 1 1/2", 1 1/2" HD, 1 3/4", 1 3/4" HD, 2", 2" HD, 2 1/2", 2 1/2" HD, 3", 4", 5", 6"
- Easy to handle and coil
- High burst strength
- No maintenance or drying required
- Designed for 10 years of service life
- 10 Year warranty
- Lifetime Warranty against tube delamination

Meets All the Requirements of  
NFPA 1961 Standard on Fire Hose

# NITREX FIRE

THROUGH THE WEAVE NITRILE/PVC  
RUBBER COVERED HOSE

## HOSE SIZE AND SPECIFICATIONS

INSIDE DIAMETER	BOWL SIZE	WEIGHT/FT. COUPLED	WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
INCHES	INCHES	POUNDS	PSI	PSI	PSI
1"	1 3/16"	.18 lbs	300 psi	600 psi	900 psi
* 1.5"	1 3/4"	.31 lbs	300 psi	600 psi	900 psi
1.5" HD	1 3/4"	.33 lbs	300 psi	600 psi	900 psi
1 3/4" HD	1 15/16"	.38 lbs	300 psi	600 psi	900 psi
2"	2 5/16"	.42 lbs	300 psi	600 psi	900 psi
2" HD	2 5/16"	.44 lbs	300 psi	600 psi	900 psi
* 2.5"	2 3/4"	.50 lbs	250 psi	500 psi	750 psi
2.5" HD	2 3/4"	.56 lbs	300 psi	600 psi	900 psi
* 3"	3 3/8"	.58 lbs	250 psi	500 psi	750 psi
* 4"	4 5/16"	.79 lbs	250 psi	500 psi	750 psi
* 5"	5 5/16"	1.05 lbs	225 psi	450 psi	675 psi
6"	6 5/16"	1.40 lbs	225 psi	450 psi	675 psi

\* UL LISTED

## QUALITY

MaTex Nitrex supplied under this specification is a premium quality through-the-weave rubber covered hose. All materials used in the construction of MaTex Nitrex shall be of the best quality commercially available. MaTex Nitrex is manufactured to meet NFPA 1961(1960) and UL-19 standards.

## HOSE CONSTRUCTION

Hose shall be made from 100% high tenacity synthetic polyester yarn, circularly woven and completely protected by a through-the-weave extruded PVC/Nitrile rubber (30%/70%), forming a single homogeneous construction without the use of glues or adhesives of any type. MaTex Nitrex shall have a thin rib for standard Nitrex construction and a heavy rib for HD version to aid abrasion resistance. Hose will meet or exceed requirements of NFPA 1961 (1960) for abrasion resistance. Hose shall carry a 10-year written warranty against defects in materials and workmanship. Materials used in construction of the hose shall be new, unused and not less than the quality conforming to modern engineering and manufacturing practices. Materials shall be free of defects and suitable for the service intended..

## LINING PROPERTIES

The tensile strength of the lining and cover shall not be less than 1200 psi with an ultimate elongation of 400%. The tensile strength and ultimate elongation of the vulcanized rubber compound which has been subjected to the action of oxygen at a pressure of 300 psi (+/-10psi) and a temperature of 158F (+/-18F) for a period of 96 hours shall retain 60% of its originally stated properties.

## ABRASION RESISTANCE

Hose shall withstand 10,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 0.5KG) without exposing the liner. Hose manufacturer on request will supply written warranties that hose meets a minimum 10,000 cycles. Other abrasion test results (UL, DIN, etc.) shall be supplied on request of purchaser.

## COLD RESISTANCE

Hose shall have a capability of use down to -65F. Hose shall have no apparent damage to cover, reinforcement, or lining when subjected to the following cold flexibility test:

A 50' length of dry hose is to be firmly coiled and placed in a cold box at -65F for a duration of 24 hours. Immediately after removal of the hose from the box, hose should be uncoiled and laid out by one operator.

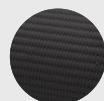
## OZONE RESISTANCE

Hose shall show no visible signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B (100 ppm/118F/70 hours).

## CHEMICAL RESISTANCE

Short-term exposure to sea water and contamination by most chemical substances, including hydrocarbons, oils, alkalis, acids, and greases shall have no effect on the short- or long-term performance of the hose.

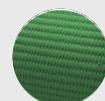
## COLORS



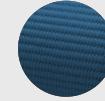
BLACK  
1 1/2", 2 1/2", 4"



ORANGE  
1 3/4", 3", 4", 5"



GREEN  
1 3/4", 4", 5"



BLUE  
1 1/2", 1 3/4", 2",  
2" HD, 4", 5"



RED  
1 1/2", 1 1/2" HD,  
1 3/4 HD, 2", 2" HD,  
2 1/2", 2 1/2" HD, 3",  
4", 5", 6"



YELLOW  
1", 1 1/2", 1 1/2" HD,  
1 3/4 HD, 2", 2" HD,  
2 1/2", 2 1/2" HD,  
3", 4", 5", 6"

Other colors available upon special request and may require MOQ. Please contact MaTex customer service for details.

## HEAT RESISTANCE

The hose, when subjected to a static pressure of 100 psi, shall be capable of withstanding a surface temperature of 1200F for a minimum of one minute without rupture or damage to the synthetic reinforcement in accordance with British Hot Cube Test.



## WARRANTY

The hose furnished under the terms of this proposal has a potential service life of 10 years barring mistreatment or accidental damage that would render the hose unfit for service. MaTex warrants the hose to be free from defects in materials and workmanship for a period of ten years. The warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.