Matex hose

# MUNICIPAL CATALOG

# MUNICIPAL

## ATTACK HOSE

**NITREX ATTACK**

**GOOD**
ICON
PACLITE

**BETTER**
PRECISION ID
PLATINUM ID

**BEST**
COBRA COMBAT

## SUPPLY HOSE

**NITREX LDH SUPPLY**

## FORESTRY HOSE

**FORESTRY T2**
**BOOSTEX**

# ATTACK HOSE

NITREX ATTACK
ICON
PACLITE
PRECISION ID
PLATINUM ID
COBRA COMBAT

# NITREX ATTACK

- Nitrile/PVC through-the-weave rubber covered construction
- Excellent resistance to abrasion in HD rib
- High resistance to oil, gasoline, and a wide range of chemicals
- Very resistant to both contact and radiant heat
- Lightweight hose, remaining flexible even at low temperatures
- Diameters: 1”, 1 1/2” HD, 1 3/4” HD, 2” HD, 2 1/2” HD, 3”, 4”, 5”
- Easy to handle and coil
- High burst strength
- No maintenance or drying required
- Designed for 10 years of service life
- 10 Year warranty
- Colors: red & yellow (other colors available upon request)
- 4’ & 5” Green only
- Lifetime Warranty against tube delamination

*

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1” | 1 1/4” | .18 LBS | 300 PSI | 600 PSI | 900 PSI |
| *1 1/2” HD | 1 13/16” | .33 LBS | 300 PSI | 600 PSI | 900 PSI |
| *1 3/4” HD | 2 1/16” | .38 LBS | 300 PSI | 600 PSI | 900 PSI |
| 2” | 2 5/16” | .44 LBS | 300 PSI | 600 PSI | 900 PSI |
| *2 1/2” HD | 2 7/8” | .56 LBS | 300 PSI | 600 PSI | 900 PSI |
| 3” | 3 1/4” | .65 LBS | 300 PSI | 600 PSI | 900 PSI |
| *4” | 4 5/16” | .90 LBS | 300 PSI | 600 PSI | 900 PSI |
| *5” | 5 5/16” | 1.20 LBS | 300 PSI | 600 PSI | 900 PSI |

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# ICON

## DOUBLE JACKET RUBBER LINED HOSE

- All polyester double jacket rubber lined attack hose
- Exclusive PU Based color coating to aid abrasion resistance and color leaching
- Reverse twill inside jacket for ultra-smooth liner surface
- Designed for 75 PSI and higher nozzle applications
- Meets and exceeds NFPA 1961 standards
- Meets and exceeds UL-19 standards
- Temperature range: -30 F to 112 F
- 10 Year manufacturer warranty
- Minimum 1200 psi Burst strength
- Colors: red, yellow, blue, black, green, tan, orange, clear
- Lengths available to 100’
- Diameters: 1 ½”, 1 ¾”, 2”, 2 ½”, 3”
- Lifetime Warranty against tube delamination

**Meets all the requirements of NFPA 1961 Standard on Fire Hose**

# ICON - DETAILED PRODUCT SPECIFICATION

**QUALITY:** The fire hose to be supplied under this specification is a premium quality, double, jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available. The weaving, curing, assembly and testing of the ICON hose shall be made in the USA.

**JACKET:** The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns. Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden. Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns. The inner jacket shall be of reverse twill weave, to allow for a smooth waterway.

**IMPREGNATION:** : The emulplast polyseel color impregnation is a proprietary process applied to the outer jacket by a mechanical process and cured into the jacket by a thermal process. This includes a polyurethane coating which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petro chemicals and displays extreme resistance to bacterial and mildew growth.

**COLORS:** yellow, orange, blue, green, red, tan, black and clear

**LINING:** The rubber shall be a single ply extrusion of EPDM polymer which naturally resists ozone and oxidation. Styrene Butadiene Rubber (SBR) which is not a natural resistor is Not Acceptable, Thermoplastic liners such as polyurethane is also Not Acceptable. The surface must be smooth and free from corrugations. The lining thickness shall be tightly controlled to reduce weight and kink radius.

**THICKNESS: 1½", 1 ¾, 2", 2½" & 3": 0.034 to 0.046"**

**TENSILE STRENGTH:** 1600 psi minimum Elongation: 500% minimum Ozone Resistance: Lining specimens shall be subjected to ASTM D 1149-91, "Standard Test Method for Rubber Deterioration- Surface Ozone Cracking in a Chamber". Specimens shall be prepared in accordance with ASTM D 518-86, "Standard Test Method for Rubber Deterioration- Surface Cracking" Procedure C, and shall be elongated 15%. Ozone concentration shall be 100+/-5 parts per hundred million by volume. Temperature shall be 40.0° +/-1.0°C (104°F). Time shall be 100 hours. There shall be no appearance of cracking or crazing when viewed under a 7- power magnifying glass at any time during or at the end of the 100 hour exposure.

**ADHESION:** The adhesive must be of uniform thickness around the circumference of the lining. Calendared adhesive with an overlap is not acceptable. The adhesion shall be such that the rate of separation of a 1½" strip of lining, transversely cut, shall not be greater than 1" per minute under a weight of 18 lbs. No Exceptions.

**LOW TEMPERATURE FLEXIBILITY:** The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

**HYDROSTATIC TEST:** Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Twist: The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½", 1¾", and 2" sizes, and not more than 1 ¾ turns per 50 ft. for the 2½" and 3" sizes under a pressure of 800 psi. No final twist in a direction to loosen the couplings shall be permitted.

**WARP:** The hose shall not warp more than 20" from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

**EXPANSION: The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.**

**ELONGATION:** The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾", 2" and 2½" sizes, and shall not exceed 10% for the 3" size.

**BURST TEST:** A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1200 psi while lying straight or curved on a 27" radius. Retention of the coupling to the hose shall equal or exceed the burst pressure.

**KINK TEST:** A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 500 psi.

**DIAMETER:** The hose shall have an internal diameter of not less than the trade size of the hose, except that internal diameter of the 2½" hose shall not be less than 2-9/16".

**METHOD OF TESTING:** All measurements and tests to determine compliance of the fire hose with the specified requirements shall be made in accordance with ASTM D 380-87, "Standard Test Methods for Rubber Hose", except otherwise specified. All tests shall be conducted at the point of manufacture, or at a laboratory equipped for such testing. All tests shall be performed as specified in NFPA 1961 (Current Edition). Hydrostatic tests shall be conducted under controlled conditions employing equipment capable of supplying a uniform pressure.

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

**Made in the U.S.A.**

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1 1/2" | 1 15/16" | .23 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 1 3/4" | 2 1/8" | .28 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2" | 2 2/5" | .31 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2 1/2" | 3" | .42 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 3" | 3 1/2" | .56 LBS | 400 PSI | 800 PSI | 1200 PSI |

# PACLITE

## DOUBLE JACKET PU LINED ATTACK HOSE

**Meets all the requirements of NFPA 1961 Standard on Fire Hose**

- LIGHTWEIGHT all polyester double jacket polyurethane lined attack hose
- **Exclusive** PU Based color coating to aid abrasion resistance and color leaching
- Reverse twill inside jacket for ultra-smooth liner surface
- Designed for 100 PSI nozzle applications and lightweight carry-up applications
- Meets and exceeds NFPA 1961 standards
- Meets and exceeds NSF 61 for potable water use
- Meets and exceeds UL-19 standards
- Temperature range: -30 F to 112 F
- 10 Year manufacturer warranty
- Minimum 1200 psi Burst strength
- Colors: Red, Yellow, Blue, Black, Green, Tan, Orange, Clear
- Lengths available to 100’
- Diameters: 1”, 1 ½”, 1 ¾”, 2”, 2 ½”, 3”, 3½”, 4”, 5”
- Lifetime Warranty against tube delamination

Made in the U.S.A.

# PACLITE - DETAILED PRODUCT SPECIFICATION

**QUALITY:** The fire hose to be supplied under this specification is a premium quality, double, jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available. The weaving, curing, assembly and testing of the Paclite hose shall be made in the USA.

**JACKET:** The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns. Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden. Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns. The inner jacket shall be of reverse twill weave, to allow for a smooth waterway. The jackets shall be constructed with a high pick count “anti-whipping” design exclusive to Matex Hose.

**IMPREGNATION:** The color impregnation is applied to the outer jacket by a mechanical process which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petrochemicals and displays extreme resistance to bacterial and mildew growth.

**COLORS:** yellow, orange, blue, forest green, lime green, red, tan and black

**LINING:** The lining shall be a single ply extrusion of ether-based, super high tensile polyurethane, highly resistant to electrolysis creating a thin wall surface to reduce weight for the total hose length. Minimum tensile strength shall be 7000 psi on a 1 1/2” strip. Matex Paclite carries a lifetime warranty against liner delamination.

**ADHESION:** The adhesion shall be such that the rate of separation of a 1½” strip of lining, transversely cut, shall not be greater than 1” per minute under a weight of 18 lbs. No Exceptions. Thickness of liner and adhesive shall not exceed 0.025” for 1” through 2½” hose, and 0.030” for 3”, 4” and 5” hose.

**LOW TEMPERATURE FLEXIBILITY:** The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

**HYDROSTATIC TEST:** Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden. Twist: The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½”, 1¾”, and 2” sizes, and not more than 1 ¾ turns per 50 ft. for the 2½” and 3” sizes under a pressure of 800 psi. Twist for 4” and 5” shall not exceed 1 ½” turns at 600 psi. No final twist in a direction to loosen the couplings shall be permitted.

**WARP:** The hose shall not warp more than 20” from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

**EXPANSION:** The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

**ELONGATION:** The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾”, 2” and 2½” sizes, and shall not exceed 10% for the 3”, 4” and 5” size.

**BURST TEST:** A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1200 psi while lying straight or curved on a 27” radius for all diameters less than 3”. Burst for 4” and 5” shall be a minimum of 900 psi. Retention of the coupling to the hose shall equal or exceed the burst pressure.

**KINK TEST:** A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 400 psi.

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

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1” | 1 5/16” | .14 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 1 1/8” | 1 15/16” | .23 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 1 3/4” | 2 1/8” | .28 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2” | 2 2/5” | .31 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2 1/2” | 3” | .42 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 3” | 3 1/2” | .56 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 3 1/2” | 4” | .60 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 4” | 4 1/2” | .75 LBS | 300 PSI | 600 PSI | 900 PSI |
| 5” | 5 1/2” | .95 LBS | 300 PSI | 600 PSI | 900 PSI |

# PRECISION ID

## ROBUST DOUBLE JACKET RUBBER LINED ATTACK HOSE

- All polyester double jacket rubber lined attack hose
- Exclusive Anti-Whip Technology
- Exclusive PU Based Color Coating to aid abrasion resistance and color leaching
- Designed for all nozzle applications including smooth bore
- Meets and exceeds NFPA 1961 Standards
- Meets and exceeds UL-19 Standards
- Temperature Range: -30 F to 122 F
- 10 Year Manufacturer Warranty
- Lifetime Warranty against Tube Delamination
- Minimum 1500 PSI Burst Strength
- High Pick Count Jackets on both inside and outside
- Military Grade Precision ID (+-.02”)
- Colors: Red, Yellow, Blue, Black, Green, Tan, Orange, Clear
- Lengths available to 100’
- Diameters: 1.77”, 1.88”, 2.52”

**MEETS AND EXCEEDS ALL THE REQUIREMENTS OF NFPA 1961 STANDARD ON FIRE HOSE**

# PRECISION ID -
DETAILED PRODUCT SPECIFICATION

**QUALITY:** The fire hose to be supplied under the specification is a premium quality double jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available. The weaving, curing, assembly and testing of the PID hose shall be made in the USA.

**JACKET:** The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the service-ability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns. Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden. Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns. The inner jacket shall be of reverse twill weave, to allow for a smooth waterway. The jackets shall be constructed with a high pick count "anti-whipping" design exclusive to Matex Hose.

**IMPREGNATION:** The color impregnation is applied to the outer jacket by a mechanical process which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petrochemicals and displays extreme resistance to bacterial and mildew growth.

**COLORS:** yellow, orange, blue, forest green, lime green, red, tan and black

**LINING:** The rubber shall be a single ply extrusion of EPDM polymer which naturally resists ozone and oxidation. Styrene Butadiene Rubber (SBR) which is not a natural resistor is Not Acceptable, Thermoplastic liners such as polyurethane is also Not Acceptable. The surface must be smooth and free from corrugations. The lining thickness shall be tightly controlled to reduce weight and kink radius.

**THICKNESS:** 1½", 1 ¾, 2" & 2½": 0.034 to 0.046" 3": 0.042 to 0.046"

**TENSILE STRENGTH:** 1600 psi minimum Elongation: 500% minimum Ozone Resistance: Lining specimens shall be subjected to ASTM D 1149-91, "Standard Test Method for Rubber Deterioration- Surface Ozone Cracking in a Chamber". Specimens shall be prepared in accordance with ASTM D 518-86, "Standard Test Method for Rubber Deterioration- Surface Cracking" Procedure C, and shall be elongated 15%. Ozone concentration shall be 100+/-5 parts per hundred million by volume. Temperature shall be 40.0° +/-1.0°C (104°F). Time shall be 100 hours. There shall be no appearance of cracking or crazing when viewed under a 7- power magnifying glass at any time during or at the end of the 100 hour exposure.

**ADHESION:** The adhesive must be of uniform thickness around the circumference of the lining. Calendared adhesive with an overlap is not acceptable. The adhesion shall be such that the rate of separation of a 1½" strip of lining, transversely cut, shall not be greater than 1" per minute under a weight of 18 lbs. No Exceptions. Thickness of liner and adhesive shall not exceed 0.052" for 1½" through 2½" hose, and 0.062" for 3" hose.

**LOW TEMPERATURE FLEXIBILITY:** The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

**HYDROSTATIC TEST:** Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden. Twist: The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½", 1¾", and 2" sizes, and not more than 1 ¾ turns per 50 ft. for the 2½" and 3" sizes under a pressure of 800 psi. No final twist in a direction to loosen the couplings shall be permitted.

**WARP:** The hose shall not warp more than 20" from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

**EXPANSION:** The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

**ELONGATION:** The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾", 2" and 2½" sizes, and shall not exceed 10% for the 3" size.

**BURST TEST:** : A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1200 psi while lying straight or curved on a 27" radius. Retention of the coupling to the hose shall equal or exceed the burst pressure.

**KINK TEST:** A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 600 psi.

**DIAMETER:** The hose shall have an internal diameter of 1.75" (plus .02") 1.88"(plus/minus .02") and 2.5" (plus .02")

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

Made in the U.S.A.

MATEX hose

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1.75" | 2 1/8" | .46 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 1.88" | 2 1/4" | .48 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2.52" | 2 15/16" | .68 LBS | 400 PSI | 800 PSI | 1200 PSI |

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# PLATINUM ID

## DOUBLE JACKET
## PU LINED ATTACK HOSE

- All polyester double jacket polyurethane lined attack hose
- **Exclusive Anti-Whip** Technology
- **Exclusive** PU Based Color Coating to aid abrasion resistance and color leaching
- Designed for all nozzle applications including smooth bore
- Meets and exceeds NFPA 1961 Standards
- Meets and exceeds UL-19 Standards
- Temperature Range: -30 F to 122 F
- 10 Year Manufacturer Warranty
- Lifetime Warranty against Tube Delamination
- Minimum 1500 PSI Burst Strength
- High Pick Count Jackets on both inside and outside
- Military Grade Precision ID (+-.02")
- Colors: Red, Yellow, Blue, Black, Green, Tan, Orange, Clear
- Lengths available to 100'
- Diameters: 1.77", 1.88", 2.52"

**Meets all the requirements of NFPA 1961 Standard on Fire Hose**

Made in the U.S.A.

# PLATINUM ID -

DETAILED PRODUCT SPECIFICATION

**QUALITY:** The fire hose to be supplied under this specification is a premium quality, double, jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available. The weaving, curing, assembly and testing of the Platinum hose shall be made in the USA.

**JACKET:** The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns. Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden. Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns. The inner jacket shall be of reverse twill weave, to allow for a smooth waterway. The jackets shall be constructed with a high pick count “anti-whipping” design exclusive to MaTex Hose.

**IMPREGNATION:** The color impregnation is applied to the outer jacket by a mechanical process which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petrochemicals and displays extreme resistance to bacterial and mildew growth. Colors available: Yellow, Orange, Blue, Forest Green, lime green, red, tan and black.

**COLORS:** Yellow, blue, orange, red, green, tan, black or clear.

**LINING:** The lining shall be a single ply extrusion of ether-based, super high tensile polyurethane, highly resistant to electrolysis creating a thin wall surface to reduce weight for the total hose length. Minimum tensile strength shall be 7000 psi on a 1 1/2” strip. MaTex Platinum carries a lifetime warranty against liner delamination.

**ADHESION:** The adhesion shall be such that the rate of separation of a 1½” strip of lining, transversely cut, shall not be greater than 1” per minute under a weight of 18 lbs. No Exceptions. Thickness of liner and adhesive shall not exceed 0.025”.

**LOW TEMPERATURE FLEXIBILITY:** The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

**HYDROSTATIC TEST:** Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden. Twist: The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½”, 1¾”, and 2” sizes, and not more than 1 ¾ turns per 50 ft. for the 2½” and 3” sizes under a pressure of 800 psi. No final twist in a direction to loosen the couplings shall be permitted.

**WARP:**The hose shall not warp more than 20” from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

**EXPANSION:** The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

**ELONGATION:** The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾”, 2” and 2½” sizes, and shall not exceed 10% for the 3” size.

**BURST TEST:** A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1500 psi while lying straight or curved on a 27” radius. Retention of the coupling to the hose shall equal or exceed the burst pressure.

**KINK TEST:** A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 500 psi.

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

Made in the U.S.A.

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1.77” | 2 1/8” | .38 LBS | 400 PSI | 800 PSI | 1500 PSI |
| 1.88” | 2 1/4” | .41 LBS | 400 PSI | 800 PSI | 1500 PSI |
| 2.52” | 2 15/16” | .52 LBS | 400 PSI | 800 PSI | 1500 PSI |

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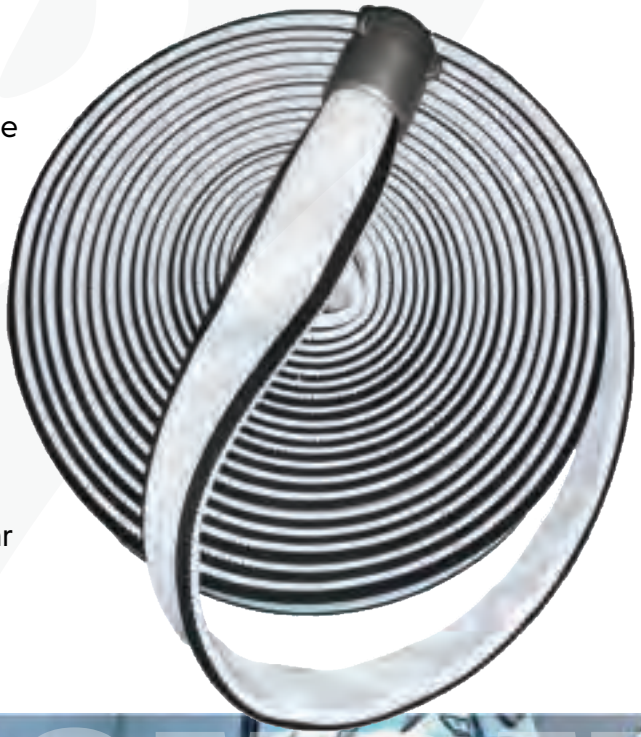
# COBRA COMBAT

## DOUBLE JACKET 4-LAYER NFPA RATED ATTACK HOSE

- Double Jacket 4-layer NFPA rated attack hose
- Exclusive Anti-Whip technology
- Exclusive PU based color coating to aid abrasion resistance and color leaching
- PVC/Nitrile liner with Proprietary reinforcement to provide the following characteristics:
  - Superior kink resistance
  - Reduced friction loss
  - Superior heat resistance
  - Proprietary Puncture resistance
  - Increased flow capabilities
  - Specifically designed for low pressure high volume nozzle applications
  - Colors: red, yellow, blue, black, green, tan, orange, clear
  - Lengths available to 100'
  - Diameters: 1.77", 1.88", 2.02", 2.30", 2.52", 4.10", 5.10"

**Meets all the requirements of NFPA 1961 Standard on Fire Hose**



# COBRA COMBAT -

DETAILED PRODUCT SPECIFICATION

Made in the U.S.A.

QUALITY: The fire hose to be supplied under the specification is a premium quality double jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available.

JACKET: The jacket shall be evenly and firmly woven, free from Unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns. Warp ends of the outer jacket shall be ring spun-polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden. Filler yarns of the outer jackets shall be of the highest denier filament polyester developed and allowed, designed and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The ring spun polyester warp ends must completely cover and protect the filament polyester filler yarns. The jacket shall be constructed with a high pick count "Anti-Whip" design technology exclusive to Matex Hose. Exclusive solution dyed black yarn creating proprietary stripes shall be woven into the jacket to correctly identify diameters.

IMPREGNATION: The emulplast polyseel color impregnations a proprietary process applied to the outer jacket by a mechanical process and cured into jacket by a thermal process, This includes a polyurethane coating which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, reduces water pick up and adds superb resistance to petro chemicals and displays extreme resistance to bacterial and mildew growth.

COLORS: Yellow, blue, orange, red, green, tan, black or clear.

LINING: The proprietary circularly woven reinforcement shall be 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. 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.

ADHESION: The adhesion of the lining to the proprietary reinforcement shall be such that the rate of separation of a 11/2" strip of lining, transversely cut, shall not be greater than 1" per minute under a weight of 18 lbs. No exceptions, Must accompany a lifetime warranty against delamination.

LOW TEMPERATURE FLEXIBILITY: The hose shall be capable of performing in sub-zero conditions. A 3 foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of hrs. At the end of the exposure period, and white maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

HYDROSTATIC TEST: Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden.

WARP: The hose shall not warp more than 20" from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

EXPANSION: The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

BURST TEST: a 3 foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1500 psi while lying straight or curved on a 27" radius for all diameters 21/2" or less. 4" and 5" shall have a minimum burst of 900 psi. Retention of the coupling to the hose shall equal or exceed the burst pressure.
KINK TEST: A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 500 psi.

WARRANTY: The fire 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. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship. Matex Cobra Combat also carries a lifetime warranty against delamination PLUS a 2 year bumper to bumper warranty if the hose fails NFPA testing for any reason.

Matex hose

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1.77" | 2 1/8" | .38 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 1.88" | 2 1/4" | .41 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2.02" | 2 2/5" | .44 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2.30" | 2 19/32" | .48 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 2.52" | 2 15/16" | .52 LBS | 400 PSI | 800 PSI | 1200 PSI |
| 4.10" | 4 1/2" | .90 LBS | 300 PSI | 600 PSI | 900 PSI |
| 5.10" | 5 1/2" | 1.10 LBS | 300 PSI | 600 PSI | 900 PSI |

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# SUPPLY HOSE

# NITREX LDH SUPPLY

- Nitrile/PVC through-the-weave rubber covered construction
- Good resistance to abrasion in standard rib
- High resistance to oil, gasoline, and a wide range of chemicals
- Very resistant to both contact and radiant heat
- Lightweight hose, remaining flexible even at low temperatures
- Diameters: 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
- Colors: red & yellow (other colors available upon request)
- Lifetime Warranty against tube delamination

NITREX SUPPLY

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 3” | 3 1/4” | .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 |

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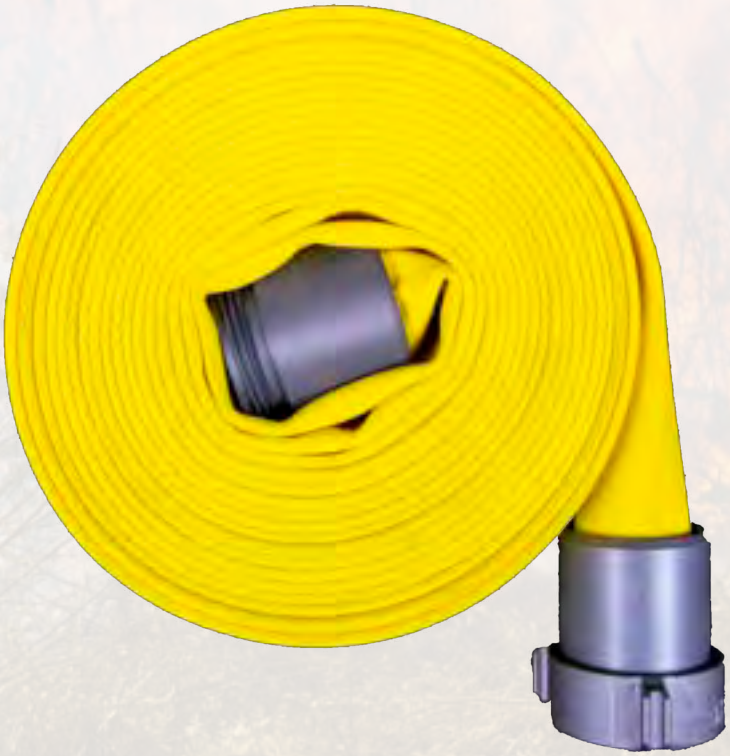
# FORESTRY

# FORESTRY T-2

- All polyester single jacket polyurethane lined attack hose
- Exclusive PU Based color coating to aid abrasion resistance and color leaching
- Twill weave jacket for superior strength and durability
- Meets and exceeds NFPA 1961 standards
- Meets and exceeds USDA Forestry Spec 5100-187C Type 2
- Meets and exceeds UL-19 standards
- Temperature range: -30 F to 112 F
- 10 Year manufacturer warranty
- Minimum 1200 psi Burst strength
- Colors: yellow and clear
- Lengths available to 100'
- Diameters: 1" and 1 ½"
- Lifetime Warranty against tube delamination



Made in the U.S.A.

**Meets USDA 5100-187 TYPE 2 Standards**

FORESTRY T2

| INSIDE DIAMETER | THICKNESS | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | TEST PRESSURE | BURST PRESSURE |
|---|---|---|---|---|---|
| 1" | 1 7/32" | .10 LBS | 300 PSI | 600 PSI | 900 PSI |
| 1 1/2" | 1 3/4" | .14 LBS | 300 PSI | 600 PSI | 900 PSI |

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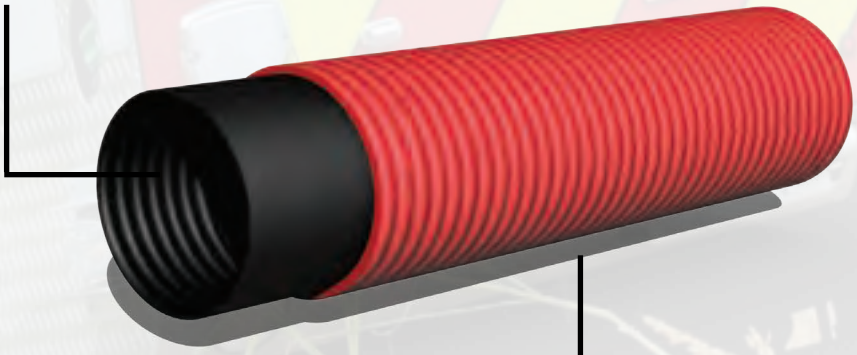
# BOOSTEX

- Lightweight rigid helix construction
- Kink Resistant
- Abrasion resistant polyurethane coating
- Color: red
- Available lengths to 200’
- Diameter: 1”

**Meets all the requirements of NFPA 1961 Standard on Fire Hose**




| INSIDE DIAMETER | WEIGHT/FT UNCOUPLED | WORKING PRESSURE | BURST PRESSURE |
|---|---|---|---|
| 1” | .23 LBS | 300 PSI | 900 PSI |

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Matex
hose
116 KINGSWOOD DRIVE
DOTHAN, AL 36303
www.matexhose.com
833.705.HOSE
334.984.0184
sales@matexhose.com