

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**



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", 1¾", 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. Calendered 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 1¾ 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