



FIRE HOSE SPECIFICATIONS

ISO-9001 Certified

Dura-Light ATX

LARGE DIAMETER ATTACK HOSE

- I. **SCOPE:** This specification defines a premium quality, heavy duty, high pressure fire hose in sizes 4" and 5" designed to meet the NFPA 1961 requirements for supply, relay and attack.
- II. **HOSE CONSTRUCTION:** Three-Ply, Double Vulcanized, Heavy Duty
 - A. Cover - 100% Synthetic Nitrile Rubber-Ribbed
 - B. Reinforcement - 100% Synthetic Fiber, Circular Woven
 - C. Inner Liner - 100% Smooth Synthetic Nitrile Rubber
Upon request, bidder to supply sample of all three-plys.
- III. **PRESSURE TEST REQUIREMENTS:** All hose shall be tested in accordance with NFPA 1961 Standard for Fire Hose, Latest Edition. Hose shall meet NFPA requirements for Supply, Relay and Attack Hose. Each section shall withstand a hydrostatic test pressure as shown below for a minimum of 15 seconds without leakage or breaking a thread in the hose.

HOSE SIZE	PROOF		
	ACCEPTANCE PRESSURE	MINIMUM BURST PRESSURE	ANNUAL SERVICE TEST PRESSURE
4"	600	900	300
5"	600	900	300

Note: Pressure test limits vary with coupling style.

- IV. **AVERAGE WEIGHTS:** Hose shall not exceed the following weights uncoupled:

SIZE	50'	100'
4"	57 lbs.	115 lbs.
5"	75 lbs.	150 lbs.

- V. **COUPLINGS:** Lightweight, extruded aluminum alloy, hardcoat anodized, rocker lug, threaded expansion ring coupling.
- VI. **ABRASION RESISTANCE:** Hose must be warranted against abrasion during normal fire ground use.
- VII. **OZONE RESISTANCE:** Hose shall show no visible signs of cracking of the lining and/or cover when tested in accordance with ASTM D1149, ASTM D518 method B, 100 pphm/122°F/70 hours.
- VIII. **HEAT RESISTANCE:** Hose cover shall not support combustion. Hose shall withstand 1200°F of a period of two minutes without damage to fabric.
- IX. **COLD RESISTANCE:** Hose shall have the capability of use down to -36°F. Hose shall have no apparent damage to cover, jacket or lining when subjected to the following cold bending test: A 50 foot length of dry hose is to be firmly coiled and placed in a cold box at -36°F for a duration of 24 hours. Immediately after removal of the hose from the cold box, an attempt is to be made by one operator to uncoil and lay out the hose. Following the cold bending test, the hose shall not leak nor show breakage of any thread in the jacket when subjected to the hydrostatic proof test requirements listed previously.
- X. **ACCELERATED AGING TEST:** The tensile strength and ultimate elongation of the lining and cover components after aging shall not be less than 75% of specimens not subjected to the oven aging test, in accordance with ASTM 573, at 70°C for 96 hours.

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XI. CHEMICAL RESISTANCE: Data made available upon request.

XII. PACKABILITY: Space required for the hose, coupled in 100' lengths, shall not exceed the following dimensions.

SIZE	FLAT WIDTH
4"	6.5"
5"	8.0"

XIII. REPAIRABILITY: Hose shall be repairable by cold patch process. No vulcanizing shall be required.

XIV. FRICTION LOSS: The friction loss characteristics of Dura-Light ATX Large Diameter Attack Hose shall conform to the following data:

SIZE	FRICTION LOSS IN PSI per 100 ft.					
	GALLONS PER MINUTE FLOW					
	500	750	1000	1250	1500	2000
4"	3.0	6.6	11.9	19.5	27.5	48.8
5"	1.1	2.4	4.1	6.7	9.0	16.0

XV. COLOR: Hose shall be available in high visibility yellow and red.

XVI. WARRANTY: The fire hose defined in this specification shall be designed to have a service life of ten years, barring mistreatment or accidental damage. Upon delivery, the fire hose shall be in first class condition and covered by a 1 year warranty against defects in materials and workmanship.

! WARNING !

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