



## JAFLINE HD SPECIFICATION DATA

## DOUBLE JACKET Fire Hose

April 2001

### 1. Applications:

Suitable for use and recommended for fire fighting activities in;

Municipal fire departments  
Industrial fire brigades  
Shipboard fire fighting  
Municipal supply lines  
LDH attack lines

Suitable for many other applications requiring a heavy duty, high pressure hose resistant to abrasion, weathering and ozone attack in extreme conditions;

Heavy duty wash down  
Jetting  
Snow making  
Dewatering applications  
Hydrant bypass

Not recommended in applications where petroleum or chemical contact is likely,

We recommend the use of our covered **JAFRIB** hoses that can easily be cleaned and decontaminated .

### 2. Hose Construction:

Hose outer jacket shall be made from 100% high quality spun polyester yarn circular woven in a tight compact weave for superior abrasion resistance and limited absorption.

The inner jacket the same as the outer has a chemically and mechanically bonded inner tube of smooth seamless **EPDM** synthetic rubber offering low friction loss, excellent ozone and temperature resistance . Hose can also have applied "**DURA-VIS**" coating for additional protection and color code identification.

### 3. Lining Properties:

#### a. Ultimate Tensile Strength:

Tensile strength of the lining and cover shall not be less than 1500 psi (10,500 kpa ).

#### b. Ultimate Elongation:

400 % minimum.

#### c. Accelerated Ageing Test:

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 +/- 10 psi (2100kpa +/- 70kpa) and temperature of 70 degrees centigrade +/-1 degree centigrade (158 F +/- 18 F ) for a period of 96 hours shall be greater than 60% of the original properties stated.

#### d. Adhesion:

Shall be such that a suspended weight of 12 lbs shall not move a strip cut transversely more than 1" per minute.

**4. Hydrostatic Pressure Tests:**

NOMINAL DIAMETER		SERVICE PRESSURE		ACCEPTANCE TEST		WEIGHT		BOWL SIZE	
INCHES	mm	PSI	Kpa	PSI	kpa	LBS / 50'	Kg / 15 m	INCHES	mm
1"	25	400	2800	800	5,600	13	6	1 7/16"	
1 1/2"	38	400	2800	800	5,600	18	8	1 15/16"	
1 3/4"	45	400	2800	800	5,600	20	9	2 1/8"	
2 1/2"	65	400	2800	800	5,600	34	15	3"	
3"	75	400	2800	800	5,600	42	19	3 17/32"	
4"	100	300	1400	600	2,800	80	36		
5"	125	300	1400	600	2,800	100	45		

**5. Abrasion Resistance:**

Hose shall withstand more than 30,000 cycles on the taber abrasion machine (H22 wheel ;1 kilo weight ). Other standard abrasion test data can be supplied on request including UL, DIN, ETC..

**6. Cold Resistance:**

Hose shall have a capability of use down to - 40 F. Hose shall have no apparent damage to jackets, or lining when subject to the following cold bending test: A soft length of dry hose is to be firmly coiled and placed in a cold box at - 40 F 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. Following this procedure, the hose shall not leak nor show any damage to the reinforcement when subjected to hydrostatic acceptance tests stated above.

**7. Ozone Resistance:**

Hose shall show no visible signs of cracking of the lining when tested in accordance with ASTM D1149-64 (R1970), ASTM D518 Procedure B, 100pphm/118 F/70 hours.

**9. Color:**

Sizes: 1", 1 1/2", 1 3/4", 2", 2 1/2", 3" ..... White  
 1", 1 1/2", 1 3/4", 2", 2 1/2", 3", 4", 5", 6" Coated ..... Yellow, Tan, Orange, Red, Blue, Green  
 Special colors available on request, minimum quantities apply consult your dealer or contact us directly.

**10. Branding:**

According to **NFPA** requirements, outlined in NFPA 1961, "Standard on Fire Hose" 1997 Edition

**11. Couplings:**

As required by purchaser, expansion ring threaded, storz clamp ring, or any international standard worldwide. Couplings to meet NFPA 1963 Standard, current edition

**12. Lengths:**

Standard 50' (15m), 75' (23m), 100' (30m).

**13. Approvals:**

Double Jacket, hoses are ( FM ) Factory Mutual and ( UL ) Underwriters Laboratory Listed.

**14. ATI** reserves the right to modify any specification without prior notice to meet or exceed changing standards.

Customers are advised that special diameters or construction characteristics can be produced on special request and you are requested to contact your local dealer or **ATI** at our email address [firesafe2000@aol.com](mailto:firesafe2000@aol.com).

**15. Warranty:** **ATI** warrants Jafline HD fire hose for a period of 10 years from date of original purchase. Certificate available upon request.