NIAGARA®

Most rugged single jacket “all purpose / everyday use” industrial / forestry / municipal fire hose

- Strong, compact, light in weight, and will fit on most hose storage devices
- Unique Mertex® lining yields an extremely low friction loss, for maximum flow and superior adhesion for long life
- Premium all synthetic single jacket
- Available with Permatek HP™ treatment against abrasion, moisture pick up and mildew
- Factory Mutual approved and can be FM labeled in the sizes specified*
- Remains flexible to -65° F (-55° C)
- Resistant to most chemicals, petrol products, ozone and U.V. exposure, hydrolysis, and rot and mildew
- Meets or exceeds all performance requirements of NFPA 1961, Underwriters Laboratories and Factory Mutual

clear
tan
black
orange
red
blue
green
yellow
purple

Hose Spec.	Trade Size		Bowl Size		Weight Un-coupled 100' (30.5m)		Coil Diameter 100' (30.5m)		Service Pressure		Proof Pressure		Burst Pressure	
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa	PSI	kPa
612	1.00	25	1 5/32	29	7.6	3.5	15.0	38.1	250	1 725	500	3 450	750	5 175
613	1.5*	38*	1 3/4	44	12.9	5.9	15.0	38.1	250	1 725	500	3 450	750	5 175
615	1.75*	44*	1 15/16	49	13.9	6.3	16.0	40.6	250	1 725	500	3 450	750	5 175
616	2.00*	51*	2 3/16	56	15.6	7.1	16.0	40.6	250	1 725	500	3 450	750	5 175
617	2.5*	64*	2 3/4	70	22.8	10.4	16.5	41.9	250	1 725	500	3 450	750	5 175
646	2.75	70	2 7/8	73	23.7	10.8	16.5	41.9	250	1 725	500	3 450	750	5 175
618	3.00*	76*	3 3/16	81	25.0	11.4	17.0	43.2	250	1 725	500	3 450	750	5 175
619	4.00	102	4 3/16	106	37.0	16.8	18.0	45.7	200	1 375	400	2 755	600	4 140
645	5.00	127	5 3/16	132	48.0	21.8	18.0	45.7	200	1 375	400	2 755	600	4 140
649	6.00	152	6 3/16	157	66.0	30.0	18.0	45.7	150	1 031	300	2 066	500	3 450

MERCEDES TEXTILES LIMITED

5838 Cypihot
Saint Laurent, QC
Canada, H4S 1Y5

PHONE 514.335.4337
PHONE 877.937.9660
FAX 514.335.9633

mercedestextiles.com
sales@mercedestextiles.com

HOW TO SPECIFY

NIAGARA®

THE HOSE SHALL BE SINGLE JACKET WITH SERVICE TEST PRESSURES AS SPECIFIED ON THE PREVIOUS PAGE.

JACKETS

The hose jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength to weight ratio and shall have a minimum filler (weft) yarns of 11.5 per inch (453 per Meter).

When requested, the jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion.

LINING

The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway. Fire hose made using adhesives of any type do not meet this specification. The lining shall be approved for use with potable water.

ADHESION

The adhesion shall be such that the rate of separation of a 1 ½" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

COLD TEMPERATURE FLEXIBILITY

The hose must remain flexible to -65°F (-55°C)..

SERVICE, TEST, BURST PRESSURES

Minimum service, test and burst pressures shall be as detailed in the specification table on the previous page.

KINK TEST

A full length will withstand a hydrostatic pressure of 600 psi / 4140 kPa while kinked.

WEIGHT

Each length of fire hose shall not weigh more than indicated in the specification table.

COUPLING SPECIFICATIONS

Couplings shall be in conformance with the current NFPA standard and made of extruded aluminum, hard coated a minimum of .002" thick.

They shall be manufactured in North America and permanently labeled with country of origin. They shall be expansion ring type.

MANUFACTURE

Both hose and couplings must be manufactured in North America and be NAFTA compliant.

STANDARDS

Must be Factory Mutual approved and can be FM labeled in the sizes specified*.