



# Mercedes Textiles Limited

## "Flowing with Technology"

5838 Cypihot  
Saint Laurent, Quebec  
Canada, H4S 1Y5  
Tel : 514-335-4337  
Fax : 514-335-9633

### Carry-Lite®

**Our Most Flexible**  
Highly Snag Resistant  
Municipal Attack Fire Hose  
Premium all Synthetic Double Jacket



#### Applications

- ▶ Rapid Intervention Team (RIT) Hose
- ▶ High-Rise Hose Kits, Attack Hose

#### Features and Benefits

- ▶ Light Weight, our easiest to advance, yet rugged to suit RIT and High Rise fire fighting
- ▶ Highly flexible and snag resistant because of our unique inner bonding process of the outer jacket, which locks the fibers in place.
- ▶ Our Patented Mertex® lining process produces an amazingly thin but smooth inner waterway, yielding an extremely low friction loss for maximum flow.
- ▶ Resistant to most chemicals, petrol products, ozone & U.V. exposure, hydrolysis, and rot & mildew.

#### Patented Mertex® Lining Process

- ▶ Welds the lining directly to the textile while the hose is being woven
- ▶ This allows the use of high strength Filament Polyester yarn to be used, due to the Mertex® process superior liner adhesion
- ▶ Locks fibers together for greater strength while still allowing for a high flexibility
- ▶ Creates a virtually inseparable bond without the use of adhesives. Huge advantage over competitors.
- ▶ Yields an extremely low friction (pressure) loss because the Mertex® process fills the corrugations of the weave, which creates an amazingly thin and smooth waterway
- ▶ Mertex® lined hose produces lower elongation under pressure. This means less pull back when water is suddenly shut-off, resulting in a safer hose to work with in firefighting.

#### Permatek™ Treatment

- ▶ Available in the following Colors : Yellow(Y), Blue(B), Green(G), Red(R), Orange(O), Black(K), Tan(T), and Clear(C)
- ▶ Locks fibers together for greater strength, reduces water pickup and absorption
- ▶ Provides protection against abrasion
- ▶ Provides resistance to Petroleum products and Ozone
- ▶ Provides for shorter drying times



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### Bid Specifications

### How to Specify Carry-Lite®

#### Scope:

Hose manufactured to this specification shall be of superior quality and workmanship. This heavy-duty double jacket fire hose shall be designed to withstand the rough usage of front line fire fighting.

#### Construction and Features:

- ▶ The hose shall be of double jacket construction.
- ▶ Both inner and outer jackets shall be made from high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength and very snag resistant.
- ▶ The outer jacket shall have a minimum of 10.8 filler pics per inch.
- ▶ The hose shall be available in any of eight colours listed with our Permatek treatment, upon request.
- ▶ The hose shall be resistant to most chemicals and petrol products, rot & mildew, hydrolysis, and resist deterioration due to exposure to UV-rays and ozone
- ▶ The hose must be of sufficient body and weight to meet the demands of heavy-duty fire fighting

#### Performance:

- ▶ The hose, in all sizes, shall have minimum service, test, and burst pressures as specified in the Technical Chart. Hoses which do not meet these minimum pressures, shall not be considered as meeting this specification.
- ▶ The hose shall have a maximum flow with minimum friction loss.
- ▶ The hose jacket shall be highly abrasion resistant, highly flexible, and very snag resistant.
- ▶ There shall, be no defects, dirt, knots, lumps or other irregularities affecting the performance of the hose.
- ▶ The hose must resist kinking and remain flexible to -65°F (-55°C).
- ▶ The hose shall not rise up from the test surface.
- ▶ A 50 ft. hose shall not twist shall more that 2 right hand turns at test pressure.
- ▶ The hose must resist kinking

#### Lining:

- ▶ The hose lining shall have excellent resistance to most chemicals, petrol products, ozone and U.V.
  - ▶ The hose lining shall be capable of being approved for potable water, when so ordered.
  - ▶ The thermoplastic lining material used for this specification shall have a flawless record in the fire hose industry.
- Both the inner and exterior jackets shall be lined by the patented Mertex® method without the use of adhesives or backing material, to lock the fibers in place. The lining material in its molten state shall fill the corrugations of the weave fusing to every warp and filler thread and provide a very smooth and low friction waterway. No adhesive or backing material shall be used to bond the lining and it shall yield maximum flow with minimum friction loss. An inner hose manufactured by inverting an exterior coated hose shall not be considered as meeting this specification. Hose manufactured with the use of adhesives or backing for bonding the liner, or hose made with rubber liners shall not be considered as meeting this specification.

#### Treatment:

- ▶ When requested, the exterior jacket shall be Permatek® treated for greater abrasion resistance, improved visibility & reduced moisture pick-up.

#### Standards:

- ▶ Fire hose manufactured to this specification shall meet & exceed all performance requirements of NFPA 1961, Underwriter's Laboratories & Factory Mutual.

#### Technical Chart

Trade Size		Bowl Size		Weight 50' (15.2M) Un-coupled		Coil Diameter 50' (15.2M)		Service Pressure		Proof Pressure		Burst Pressure	
In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa	PSI	kPa
1 1/2	38	1 3/4	44	10.5	4.8	12	30	300	2,070	600	4,140	900	6,200
1 3/4	44	2	51	12.5	5.7	14	36	300	2,070	600	4,140	900	6,200