



# Mercedes Textiles Limited

"Flowing with Technology"

## ICW-600™

De-Contamination & Wash Down Hose  
Industrial Fire Fighting Hose  
For use in a chemicals & petroleum products environment  
Premium all Synthetic, Single Jacket Fire Hose  
300 PSIG / 2070 kPa Service Pressure

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

### SPECIALLY DESIGNED FOR CHEMICALS & PETROLEUM PRODUCTS ENVIRONMENT



#### Applications

- ▶ Industrial Applications Hose
- ▶ De-Contamination & Wash Down Hose
- ▶ Chemicals & Petroleum Products Environment
- ▶ Public Works, Parks (Hockey Rinks, Swimming Pools, etc)
- ▶ Potable Water Transfer Hose (Stenciled)

#### Features and Benefits

- ▶ Tough and ready for action but light in weight.
- ▶ Our Patented Mertex® lining process produces an amazingly thin but smooth inner waterway, yielding an extremely low friction loss for maximum flow.
- ▶ Will remain flexible to -65° F (-55° C).
- ▶ Specially coated using our MTLPERM™ HP polyurethane treatment, for extremely high resistance against industrial chemicals and abrasion. This treatment also locks fibers together for greater strength, and virtually eliminates any moisture absorption through the jacket.

#### Patented Mertex® Lining Process

- ▶ Welds the lining directly to the textile while the hose is being woven.
- ▶ 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.
- ▶ Permits manufacturing to special lengths. Consult factory for details.



# Mercedes Textiles Limited

## "Flowing with Technology"

### Bid Specifications

### How to Specify ICW-600™

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

#### Scope:

- ▶ Hose manufactured to this specification shall be of superior quality in both workmanship and raw materials. Within the scope of a single jacket construction the hose shall be resistant to wear and tear. The hose shall not deteriorate from the effects of aging.

#### Construction and Features:

- ▶ The hose shall be of single jacket construction.
- ▶ The jacket shall be made with virgin spun polyester warp yarn and a filament polyester weft yarn. Hose made using nylon or other materials shall not be considered as meeting this specification.
- ▶ The jacket shall be a tight twill weave made with 100% high tenacity polyester spun yarn to assure maximum strength to weight ratio, and excellent abrasion resistance.
- ▶ The hose jacket shall have a minimum filler yarns of 10.4 per inch (409 per Meter)
- ▶ 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.

#### 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.
- ▶ 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).
- ▶ Twisting and warping shall be at least 100% better than required, by the applicable NFPA standards.
- ▶ The hose shall not rise up from the test surface.

#### 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.
- ▶ The hose jacket 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:

- ▶ The hose jacket shall be treated with MTLPERM™ HP polyurethane coating.

#### Standards:

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

#### Technical Chart

Hose Spec	Trade Size		Bowl Size		Wt. 100' (30.5M) Un-coupled		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
480	1.00	25	1 5/32	29	10.2	4.6	16.5	41.9	300	2 070	600	4 140	900	6 200
481	1.50	38	1 11/16	43	14.1	6.4	17.0	43.2	300	2 070	600	4 140	900	6 200
482	1.75	44	1 7/8	48	16.5	7.5	17.0	43.2	300	2 070	600	4 140	900	6 200