



# Mercedes Textiles Limited

## "Flowing with Technology"

5838 Cypihot  
Saint Laurent, Quebec  
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Tel : 514-335-4337  
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### Pyroblend®

Cotton / Synthetic Forestry Hose  
300 PSIG / 2070 kPa Service Pressure  
Superior Performance & Durability

#### COTTON / SYNTHETIC BLENDS IN A NON-PERCOLATING ULC APPROVED FIRE HOSE



#### Applications

- ▶ Forestry Agency Attack Hose

#### Features and Benefits

- ▶ Tough and ready for action but light in weight.
- ▶ Remarkably light and compact in spite of its heavy duty construction, because of the cotton blending technology.
- ▶ Our Patented Mertex® lining process produces an amazingly thin but smooth inner waterway, yielding an extremely low friction loss for maximum flow.
- ▶ Standard treatment of cotton jacket includes anti-fungal & anti-microbe as per ULC S518/S519 & CGSB CAN2-4.2 method 28.3.
- ▶ Resistant to most chemicals, petrol products, ozone & U.V. exposure, hydrolysis, and rot & mildew.
- ▶ **Meets ULC requirements and can be labeled upon request in the sizes specified\*.**
- ▶ Meets or exceeds all performance requirements of NFPA 1961, U.L.C S518-M90, and ULC 400° C Hot Block test.

#### 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.



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### Bid Specifications

### How to Specify Pyroblend®

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#### 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 100% virgin spun cotton and filament polyester warp yarn and high tenacity filament polyester filler yarn tightly woven in twill weave.
- ▶ The hose outer jacket shall have a minimum filler yarns of 13.7 per inch (539 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 1 1/2" (38 mm) hose shall be capable of flowing 70 US GPM (264 LPM) with a maximum pressure loss of 10 PSIG (69 kPa) per 100' (30.48M). A hose with a friction loss greater than this shall not be considered as meeting this specification.
- ▶ 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.
- ▶ 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 exterior cotton jacket shall be treated with anti-fungal/ anti microbe as per ULC S518/S519 and CGSB CAN2-4.2 method 28.3, to resist rot and mildew.

#### Standards:

- ▶ The hose shall be ULC approved and can be labeled upon request in the sizes specified\*
- ▶ Fire hose manufactured to this specification shall meet or exceed all performance requirements of NFPA 1961, U.L.C S518-M90, and ULC 400°C Hot Block test.

#### Technical Chart

Hose Spec	Trade Size		Bowl Size		Wt. 100' (30.5M) Un-coupled		Coil Diameter 100' (30.5M)		Service Pressure		Proof Pressure		Burst PSI	Pressure kPa
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa		
760	1.00	25	1 5/32	29	8.5	3.9	15.0	38.1	300	2,070	600	4,140	900	6,200
708	1.5*	38*	1 11/16	43	13.0	5.9	15.0	38.1	300	2,070	600	4,140	900	6,200