



Mercedes Textiles Limited

"Flowing with Technology"

MTFC-800™

**Highly Heat Resistant
Municipal Attack Fire Hose**
Premium Cotton Synthetic Double Jacket
A superior heavy-duty fire hose
400 PSIG / 2750 kPa Service Pressure

5838 Cypihot
Saint Laurent, Quebec
Canada, H4S 1Y5
Tel : 514-335-4337
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DESIGNED FOR APPLICATIONS WHERE HEAT RESISTANCE AND LIGHT WEIGHT ARE IMPORTANT CRITERIA



Applications

- ▶ Pre-Connected Cross-Lay & Attack Hose
- ▶ Pre-Connected Front Bumper Attack Hose

Features and Benefits

- ▶ 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.
- ▶ Will remain flexible to -65° F (-55° C).
- ▶ 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.
- ▶ 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 safe hose to work with.
- ▶ Permits manufacturing to special lengths. Consult factory for details.

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 MTFC-800™

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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.
- ▶ Double jacket hose manufactured to this specification shall be tightly woven from filament polyester yarns in the inner and spun cotton/filament polyester in the outer jackets, and be highly abrasion resistant.
- ▶ The hose outer 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.
- ▶ 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.
- ▶ 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).

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. 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. A 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:

- ▶ Fire hose manufactured to this specification shall meet & exceed all performance requirements of NFPA 1961, Underwriter's Laboratories & Factory Mutual.
- ▶ 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		Weight 50' (15.2M) Un-coupled		Coil Diameter 50' (15.2M)		Service Pressure		Proof Pressure		Burst PSI	Pressure kPa
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa		
679	1.50	38	1 13/16	46	11.0	5.0	15.0	38.1	400	2,750	800	5,500	1,200	8,275
680	1.75	44	2	51	14.0	6.4	15.0	38.1	400	2,750	800	5,500	1,200	8,275