



Mercedes Textiles Limited

"Flowing with Technology"

Aquapower™

**Highly Kink Resistant
Municipal Attack Fire Hose
Premium all Synthetic Double Jacket
400 PSIG / 2750 kPa Service Pressure
Superior Performance & Durability**

5838 Cypihot
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Tel : 514-335-4337
Fax : 514-335-9633

DESIGNED FOR INTERIOR ATTACK APPLICATIONS REQUIRING HIGH KINK RESISTANCE & DURABILITY



Applications

- ▶ Aggressive Interior Attack Hose
- ▶ Pre-Connected Cross-Lay & Attack Hose
- ▶ Pre-Connected Front Bumper Attack Hose
- ▶ De-Contamination & Wash Down Hose

Features and Benefits

- ▶ Extremely kink resistant, even at low pressure
- ▶ Complete with Permatek™ HP treatment in a variety of colors, for even greater visibility & abrasion resistance. This treatment also greatly reduces moisture absorption through the jacket.
- ▶ Uses through the weave extrusion lining process, which completely encapsulates the jacket textile.
- ▶ Resistant to most chemicals, petrol products, ozone & U.V. exposure, hydrolysis, and rot & mildew.
- ▶ Will remain flexible to -35° F (-37° C).
- ▶ Available with our unique patent pending Mertex Wayout™ couplings. The Mertex Wayout™ couplings' reflective recessed arrows help guide the way out of a fire.
- ▶ 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 Aquapower™

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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.
- ▶ The inner jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength.
- ▶ The outer 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 hose outer jacket shall have a minimum filler yarns of 10.0 per inch (394 per Meter)
- ▶ The hose shall be available in any of eight colors listed with our Permatek treatment, upon request.
- ▶ The inner hose shall be capable of being used as a hose without the use of the exterior jacket. It shall have sufficient covering of nitrile rubber on the exterior to yield good abrasion resistance.
- ▶ The hose shall have excellent resistance to most chemical substances, oils and greases. Exposure to salt water shall have no effect on the short or long term performance of the hose and copy of the chemical resistance shall be provided upon request.
- ▶ The hose must be of sufficient body and weight to meet the demands of heavy-duty fire fighting.
- ▶ When requested the hose shall be available with patent pending Mertex Wayout™ couplings. The Mertex Wayout™ couplings' reflective recessed arrows help guide the way out of a fire.

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 -35°F (-37°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 inner jacket shall be made using the through the weave extrusion process and the elastomer lining shall completely encapsulate the jacket textile with an almost inseparable bond.

Treatment:

- ▶ 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

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		
785	1.50	38	1 13/16	46	16.5	7.5	18.0	45.7	400	2 750	800	5 500	1 200	8 275
786	1.75	44	2 1/8	54	19.0	8.6	18.0	45.7	400	2 750	800	5 500	1 500	10 340
788	2.50	64	2 7/8	73	28.0	12.7	18.5	47.0	400	2 750	800	5 500	1 200	8 275