



Mercedes Textiles Limited

"Flowing with Technology"

Tournament Hose®

When Winning is Everything
Single and Double Jacket Tournament Hose
Superior Performance & Durability

5838 Cypihot
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Tel : 514-335-4337
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DESIGNED TO SPECIFIC CRITERIA FOR USE IN FIRE FIGHTERS TOURNAMENTS



Applications

- ▶ Fire Fighters Tournaments

▶ Features and Benefits

- ▶ Very low elongation yielding a faster water flow to the nozzle.
- ▶ It's light weight reduces fire fighter fatigue & stress. It's that simple!
- ▶ 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.
- ▶ Available in both single & double jackets.

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.
- ▶ Permits manufacturing to special lengths. Consult factory for details.



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Bid Specifications

How to Specify Tournament Hose®

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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 single jacket construction.
- ▶ The jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength to weight ratio.
- ▶ The hose outer jacket shall have a minimum filler yarns of 14.1 per inch (555 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.
- ▶ Specifically designed to have very low elongation thereby ensuring the water reaches the nozzle faster and with very low twist, making the hose very stable.

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).
- ▶ 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. 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.

Standards:

- ▶ Fire hose manufactured to this specification shall meet & exceed all performance requirements of NFPA 1961, Underwriter's Laboratories & Factory Mutual.
- ▶ The hose outer jacket shall have a minimum filler yarns of 14.1 per inch (555 per Meter)

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 | | |
| 434 | 2.5 "Sing." | 64 | 2 11/16 | 68 | 12.0 | 5.5 | 12.0 | 30.5 | 250 | 1,725 | 500 | 3,450 | 750 | 5,175 |
| 454 | 2.5 "Dble" | 64 | 2 13/16 | 71 | 21.0 | 9.5 | 16.0 | 40.6 | 400 | 2,750 | 800 | 5,500 | 1,200 | 8,275 |