

DIAMETERS

-  1.75in/44mm
-  2.50in/64mm

EXOMETRO®

Designed specifically for aggressive fire fighting applications with true diameter waterways.

- » True diameter means less water weight, which makes this hose easier to stretch, advance and maneuver
- » Kinks less than any other hose in its class, especially at low pressures
- » Unique Mertex® lining yields extremely low friction loss, for maximum flow and superior adhesion
- » Standard with anodized Wayout® couplings and IDentify® coding system.
 - The reflective recessed arrows help guide the way out of a fire
 - The IDentify® recessed area provides for color and bar coding and/or identification markings
- » Features our Mercedes Textiles Limited 2-10-L warranty ("2 year All Hazards", "10 year against manufacturing defects" and "Lifetime against delamination")
- » Standard with our Permatek HP™ treatment in (9) color options
- » Burst safety factor of 3.75 times the service pressure for greater security
- » Remains flexible to -65° F / -55° C
- » Meets or exceeds all performance requirements of NFPA 1960 (1961), Underwriters Laboratories and Factory Mutual. UL approved in sizes 1 ¾ inch (44mm) and 2 ½" (64mm) and can be UL labeled upon request
- » All sizes and colors are tested according to the procedures specified in "2020 UL 19 radiant heat test"



clear
tan
black
orange
red
blue
green
yellow
purple

Hose Spec.	Trade Size		Bowl Size		Weight UN-COUPLED (50' / 15.2m)		Coil Diameter (50' / 15.2m)		Service Pressure		Proof Pressure		Burst Pressure	
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa	PSI	kPa
820	1.75	44	2.0	51	14.5	6.6	17.0	43	400	2 755	800	5 515	1 500	10 345
818	2.50	64	2 7/8	73	21.5	9.8	19.0	48	400	2 755	800	5 515	1 500	10 345



**MERCEDES
TEXTILES LIMITED**
Innovation delivered.™

5838 Cypihot
Saint Laurent, QC
Canada, H4S 1Y5

PHONE 514.335.4337
PHONE 877.937.9660
FAX 514.335.9633

mercedestextiles.com
sales@mercedestextiles.com

HOW TO SPECIFY EXOMETRO®

**THE HOSE SHALL BE DOUBLE JACKET WITH A
SERVICE TEST PRESSURE OF 400 PSI / 2755 KPA.**

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JACKETS

The inner hose jacket shall be made with 100% filament polyester warp and weft yarn. The outer jacket shall be made with virgin spun polyester warp yarn and a minimum of 10 filament polyester weft yarn picks per inch (394 per Meter). The jacket shall have two 5/8" (16 mm) wide stripes, 1/4" (6 mm) apart, running the full length of the jacket. The outer jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion.

LINING

The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway. Fire hose made using adhesives of any type do not meet this specification. The lining shall be approved for use with potable water.

ADHESION

The adhesion shall be such that the rate of separation of a 1 1/2" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

COLD TEMPERATURE FLEXIBILITY

The hose must remain flexible to -65°F (-55°C)

FLOW AND FRICTION LOSS

1 3/4 inch (44mm) diameter @ 100 US GPM (379 LPM), shall not exceed 11.5 PSI (79 kPa) loss per 100 feet (30.5 M)

SERVICE, TEST, BURST PRESSURES

Minimum service, test and burst pressures shall be as detailed in the specification table on the previous page.

KINK TEST

HIGH PRESSURE: A full length shall withstand, without damage, a hydrostatic pressure of 600 psi / 4140 kPa while kinked.

LOW PRESSURE: For sizes up to 2 1/2" / 64mm, the hose shall not kink when formed into a 30" / 76 cm wide loop (outside measure) at 60 psi / 415 kPa internal water pressure.

WEIGHT

Each length of fire hose shall not weigh more than indicated in the specification table.

COUPLING SPECIFICATIONS

Must come standard with anodized couplings. The female coupling shall have at least 3 reflective arrows, in order to be visible from any position. The reflective arrows must be engraved into and below the surface of the coupling, to resist abrasion. The arrows must point in the direction of the water source for a standard hose connection. The male coupling and female swivel nut must both have a recessed area to facilitate color and bar coding and/or identification markings.

MANUFACTURE

Both hose and couplings must be manufactured in North America. Couplings must be USMCA compliant.

STANDARDS

Hose must be UL approved in sizes 1 3/4 inch (44mm) and 2 1/2" (64mm) and UL labeled when requested.

The hose must meet or exceed all performance requirements of NFPA 1960 (1961), Underwriters Laboratories and Factory Mutual.

The hose must also be tested in accordance with the procedures specified in "2020 UL 19 radiant heat test".

WARRANTY

The fire hose shall have a 2-10-L warranty, as described below.

"2" denotes Two year "all hazards" warranty against any damage incurred during fire fighting applications.

"10" denotes Ten year warranty against manufacturing defects

"L" denotes Lifetime warranty against liner delamination.

INNOVATION DELIVERED.



MODEL: 820 MTL EXOMETRO
SIZE: 1.75" (45 mm)
SERVICE TEST: 400 psi – 2760 kPa
TYPE: Double Jacket
 Ozone resistant
 For use down to -65 F (-54 C)

ID UNCHARGED: 1.76" (44.7 mm)
ID @ 50 PSI: 1.78" (45.21 mm)
ID @ 150 PSI: 1.81" (45.97 mm)
OD @ 150 PSI: 2.06" (52.32 mm)

RADIANT HEAT TEST

RADIANT HEAT EXPOSURE: 30 KW/M2

HOSE SIZE in. (mm)	COLOR / MARKING	EXPOSURE DURATION	AVG LEAKAGE RATE @ 150 psi	MAX LEAKAGE RATE @ 150 psi
1 3/4 (45)	Clear/White with Red Stripe	1 min 42 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Yellow with Red Stripe	1 min 40 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Red with Red Stripe	1 min 30 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Blue with Red Stripe	1 min 55 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Green with Red Stripe	1 min 59 sec	No Leakage	< 1 gpm
1 3/4 (45)	Tan with Red Strip	1 min 39 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Black with Red Stripe	1 min 25 sec	< 1 gpm	< 1 gpm
1 3/4 (45)	Purple with Red Stripe	1 min 55 sec	No Leakage	No Leakage
1 3/4 (45)	Orange with Red Stripe	1 min 33 sec	< 1 gpm	< 1 gpm

CONDUCTIVE HEAT TEST

CONDUCTIVE HEAT EXPOSURE: STEEL
 BLOCK AT 400° C (752° F)

HOSE SIZE in. (mm)	EXPOSURE DURATION	AVG LEAKAGE RATE @ 150 psi	MAX LEAKAGE RATE @ 150 psi
1 3/4 (45)	13 sec	< 1 gpm	1 gpm

TYPE HOSE: 2

