

# MERCO TAPE – TECHNICAL DATA SHEET

## Merco Threadmaster® Threadseal Tapes

M77-M78 Series Full Density Mil Spec A-A-58092



We offer our US-Made **Threadmaster® PTFE Threadseal Tape** in three densities, four widths, three lengths and five colors. No one offers a wider selection of quality, US-made PTFE thread seal tape than Merco Tape.

**Merco Threadmaster® Threadseal Tape** permits quick, clean and economical sealing of male pipe threads of all sizes and reduces the risk of system contamination common with liquid and paste sealants. The self-lubricating quality of our unsintered PTFE (polytetrafluoroethylene\*) tape makes joints easy to assemble and disassemble and extends the life of the sealed connections.

All **Merco Threadmaster® Threadseal Tape** is totally **maintenance free**. It is **virtually chemically inert, non-toxic, insoluble, non-biodegradable, non-flammable** and the **white is 100% pure PTFE** (Colorings in *any and every* roll of colored or nickel tape are non-PTFE additives making them impossible to be 100% pure.) All will handle **temperatures from -450°F to 550°F (-232°C to 265°C)**. Pressure is **UL rated** from a **hard vacuum to 100psi** (but can handle **to 10,000 psi** depending on the quality of your fittings\*) All are **UL listed**. Each proudly displays a full color made in USA flag and directions for use. Shelf life is indefinite.

	M77 Full Density	M78 Full Density	M78Ni Nickel	ASTM Method
Thickness	3.2-3.8 mil	3.2-3.8 mil	3.7-4.3 mil	D-374
Specific Gravity	1.2-1.55 g/cm <sup>3</sup>	1.2-1.55 g/cm <sup>3</sup>	1.2-1.55 g/cm <sup>3</sup>	D-792
Longitudinal Tensile	100 psi*	100 psi*	100 psi*	D-882
Width Tensile	100 psi	100 psi	100 psi	D-882
Elongation	75%	75%	75%	D-882

\*Per **UL listing requirements** all PTFE products must certify (only) to 100psi. Our 100% pure (i.e. non-colored and non-nickel) PTFE tapes are frequently used in systems where pressures exceed 10,000 psi. While we cannot certify to this because we do not control the quality of the other components nor their installation as a rule our tapes, when properly used, will meet or exceed the minimum pressure ratings of the components they are used with.

## Merco Tape

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[www.MercoTape.com](http://www.MercoTape.com)

[www.ElectricalTape.com](http://www.ElectricalTape.com)

[www.MaskingTape.com](http://www.MaskingTape.com)

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**Threadmaster® M77 Full Density** is our ultimate, sleep-at-night thread seal for applications where you simply do not get a second chance. Our **Threadmaster® M77 Full Density tape meets the true, tougher new mil spec MIL-A-A 58092**. Not many tapes can say that. And not many companies can say their product is sealing threads in submarines, jet propulsion systems, nuclear plants and places you just do not get a second chance.

**Threadmaster® M78 Full Density** is our M77 Full Density tape colored to meet building codes. Yellow for Gas, Pink for Water, Green for Oxygen and Grey for steel.

**Threadmaster® M78Ni Full Density** is a nickel impregnated threadseal intended for use with chrome and stainless fittings. The nickel prevents galling, a form of wear caused by adhesion between sliding surfaces. Galling is almost inevitable on stainless to stainless contact and regular threadseal will not prevent this like nickel impregnated M77Ni.



HOW NEWPORT NEWS SHIP-YARD CAME TO INSIST ON MERCO THREADMASTER® FOR THEIR SHIPS AND SUBMARINES. DON'T SETTLE FOR ANYTHING LESS.

**N.B.** M78 and M78Ni technically do not meet the new spec, which calls for 100% pure PTFE. Both nickel and coloring are additives and are not PTFE. Both products do meet the density requirements and for their intended applications, save the additives, are spec compliant.

Available from stock:

M77: ¼": 260" and 520"	½": 260, 520 and 1296"	¾": 520" and 1296"	1": 520" and 1296"
M78: ¼": 260" and 520"	½": 260 and 520	¾": 520"	
M78Ni: ¼": 260"	½": 260	¾": 260"	1": 260"

*other sizes available upon application*

\*PTFE is the chemical name for Polytetrafluorethylene. Teflon® is a registered trademark of DuPont de Nemours and is the trade name for Polytetrafluorethylene. However, DuPont insists there is no such thing as Teflon® Tape.



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