BLUE MONSTER® PTFE Thread Sealant

BLUE MONSTER *is a rugged, general purpose PTFE Thread Seal Tape in a monstrous roll!*

Professional-grade density and five times more tape!

Blue Monster is a blue color-coded, professional-density, PTFE thread sealing tape for hundreds of applications. It creates dependable, leak-proof joints.

Blue Monster is not too thick and not too thin. It was developed by Mill-Rose in response to the demand for a higher-quality PTFE sealing tape that is easier to apply.

Blue Monster is rugged, not flimsy like most thread seal tapes on the market. Blue Monster has not been stretched during the manufacturing process, so it is thicker and creates a more effective seal with less tape, and no need for pipe dope.

Blue Monster thread sealing tape is manufactured from PTFE resin, a polymer consisting of recurring tetrafluoroethylene monomers whose formula is $(CF_2\text{-}CF_2)n$. It is inert and compatible with a very wide range of materials. Use *Blue Monster* on threads made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS, fiberglass and more.

Cat #	Size	Case Pack	Weight
70659	1/4" x 520" roll	100	0.5 lbs.
70660	1/2" x 260" roll	144	5.5 lbs.
70661	1/2" x 520" roll	144	7.5 lbs.
70662	3/4" x 260" roll	100	5.0 lbs.
70663	3/4" x 520" roll	100	7.0 lbs.
70664	1" x 260" roll	120	8.0 lbs.
70665	1" x 520" roll	120	11.0 lbs.
70885	1/2" x 1429" roll	45	5.5 lbs.
70886	3/4" x 1429" roll	27	5.0 lbs.
70887	1" x 1429" roll	27	5.75 lbs.
70888	2" x 1429" roll	27	11.40 lbs.

- **A new, thicker, professional-grade density**
- **Monstrous roll (1429")**
- **Seals threads effectively in more applications**
- **No need for pipe dope.**
- **Easier to use - no waste!**
- **All purpose - use on iron, brass, copper, aluminum, stainless steel, galvanized steel, polyethylene, polypropylene, PVC, CPVC, ABS, fiberglass and more.**

Characteristics

- Compatible with a broad range of gases and liquids
- Compatible with a broad range of piping materials
- Will not harden or crack on the joints
- Effective across a broad range of temperatures and pressures
- Acts as a thread lubricant and anti-seize
- Prevents electrolytic corrosion of threads
- No curing time
- Unlimited shelf life
- Non-flammable
- Non-toxic
- Clean

Point-of-sale display contains 45 rolls.

Listed

LISTED
PIPE JOINT TAPE
5GB4

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BLUE MONSTER® PTFE Thread Sealant

Specifications

Composition:	99.6% PTFE < 0.4% Pigment
Color:	Blue
Length:	1429"
Thickness:	0.0035" +/- 10%
Density:	0.8g/cm^3
Elongation:	>100%
Tensile strength:	15N / mm^2
Pressure rating:	Mill-Rose *Blue Monster* Thread Sealing Tape has been used to seal fittings carrying water and oil at pressures up to 10,000 PSI or 69,000kPa **Note.** Pressure ratings are relative to the quality and torque of the fittings and the amount of tape used.
Temperature range:	-450ºF to +500ºF (-268ºC to +260ºC) PTFE is completely stable up to +500º F or +260º C. Decomposition is slow up to 750ºF or 400ºC. Although decomposition will occur on contact with naked flames.

Precautions

Note. Keep Mill-Rose *Blue Monster* Thread Sealing Tape clean. Replace the clip on the spool after use. Store in a clean place. PTFE is virtually chemically resistant to all media, however there are a few exceptions. Alkali metals such as elemental sodium, potassium and lithium are to be avoided. These alkali metals remove fluorine from the polymer molecule. Extremely potent oxidizers such as fluorine (F_2) and related compounds (e.g., chlorine trifluoride(ClF_3) can be handled by PTFE, but only with great care. Since fluorine is absorbed into the resin, the mixture becomes sensitive to a source of ignition such as impact. Other media to avoid are 80% NaOH or KOH, metal hydrides such as boranes (e.g., B_2H_6), aluminum chloride, ammonia (NH_3), certain amines (R-NH_2), imines (R-NH) and 70% nitric acid at temperatures near the suggested service level.

This thread seal tape can be used on pipes carrying the following:

- Aliphatic solvents
- Ammonia, liquid
- Aromatic solvents
- Caustics, concentrated *(see precautions)*
- Chlorinated solvents
- Cutting oils
- Diesel fuel oil
- Ethylene glycol
- Fatty acids
- Gasohol
- Glycerine
- Heating oils
- Hydraulic fluids
- Hydraulic oils
- Hydrogen, gaseous and liquid
- Inert gases, gaseous and liquid
- Jet fuel
- Kerosene
- Ketones
- Liquid Petroleum Gas
- Mineral oils
- Natural gas
- Nitrogen, gaseous and liquid
- Petroleum solvents
- Soap, liquid
- Steam
- Vegetable oils
- Water, Potable

Contact Mill-Rose for a more-detailed list of compatible chemicals.

Do not use Mill-Rose Blue Monster Thread Sealing Tape on oxygen lines!

Mill-Rose recommends Green Oxygen Tape for oxygen lines. For further safety details consult the Material Safety Data Sheet.

Note. Mill-Rose *Blue Monster* Tape is compatible with most gases, but for gas lines, Mill-Rose *3-Wrap* Yellow Gas Seal Tape is recommended.

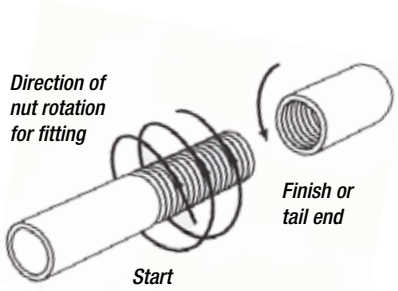
Limited Liability

The information presented is in good faith, but no warranty is given nor are the results guaranteed. Since we have no control over the physical conditions surrounding the application of information herein contained, Mill-Rose disclaims any liability for untoward results.

INSTRUCTIONS

Fittings up to 1½" (38mm) diameter

1. Use ½" (12mm) wide tape
2. Clean the male and female threads thoroughly
3. Wrap the tape around the male thread. Take care to keep the tape under tension as you are wrapping so the tape molds itself into the root of the thread.
4. Make sure that you wrap with the thread.
5. Make sure the tape does not overlap the end of the fitting.
6. Three wraps seals most threads.



Fittings above 1½" (38mm) diameter.

1. Use ¾" (19mm) wide tape for fittings up to 2" (51mm) in diameter. Use 1" (25mm) wide tape for fittings larger than 2" (51mm) in diameter.
2. Follow the directions above.

Note. For poor quality or damaged threads, or threads that are hard to seal like parallel threads, or threads on fittings subject to vibration, more than three wraps may be necessary.

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