

TAPE MVT

aluminium foil tape / vapor barrier

Tape MVT is a high-performance, aluminium foil membrane specifically designed to act as a vapour barrier in critical applications where prevention of CUI (corrosion under insulation) is of highest priority. It can be used either as a joining and covering tape for Pyrotek foil faced products, such as Quadzero MVT (Tape MVT-R) or as a blanket membrane by itself (Tape MVT-B). Cold pipelines with exposure to ambient temperatures create perfect conditions for moisture buildup inside equipment. The low permeability properties of Tape MVT blocks moisture entry into the insulation system, maintaining its thermal performance, and preventing corrosion under insulation (CUI).

Two grades of Tape MVT are available:

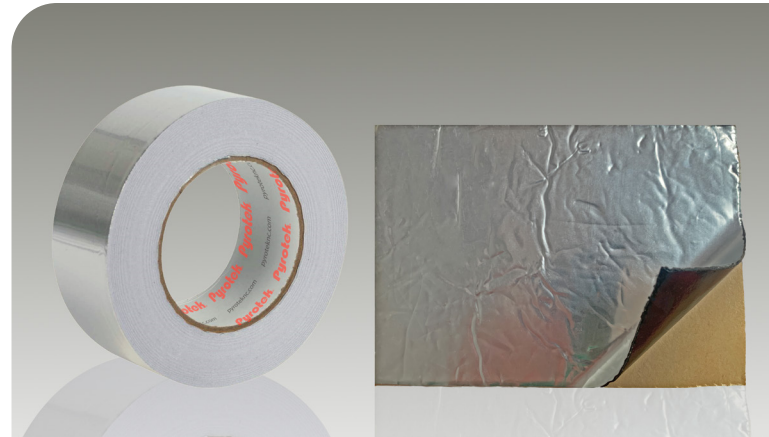
Tape MVT-R is designed with a reinforcing mesh, which provides good mechanical stability during application and once in place prevents further movement. The nature of the tape is such that it provides a rare combination of high strength, flexibility and conformability. The pressure sensitive adhesive backing gives high initial tack and holding power.

Tape MVT-B is a composite aluminium facing laminated to self-adhesive membrane. The composite aluminium facing provides extra strength and reinforcement as well as excellent resistance to vapor and UV. Combining this with flexible self-adhesive layer makes Tape MVT-B easy to install across wide range of applications and temperatures.

Both tapes are protected by a silicone coated, removable release paper which provides easy release properties and aids ease of application.

SPECIFICATIONS

Colour	Silver
Available	Tape MVT-R Standard width: 72 mm (2.8 in) Standard roll length: 50 m (164 ft)
	Tape MVT-B Standard width: 1000 mm (3.28 ft) Standard roll length: 15 m (49 ft)
	Custom sizes available depending on MOQ



applications

- Liquefied natural gas (LNG) and cryogenic pipes
- Wrapped around other noisy pipes, valves and fan casings e.g. fluid or gas pulsation in chemical, petrochemical and waste water treatment plants
- Industrial application for tanks and other LNG facilities
- Compressor jackets where acoustic and thermal treatment and/or waterproofing is required
- HVAC industry wrapping for air-conditioning ducts

features

- Polyethylene fibre mesh/film composite reinforced aluminium foil
- High-performance vapour barrier
- High-performance synthetic pressure sensitive adhesive backing, excellent initial tack and grab
- Broad operating temperature range
- High-performance in heat, humidity and environmental conditions
- Resistant to dust, oils and solvents
- Reflects and insulates against heat
- Easily cut, shaped and fabricated
- Puncture and tear resistant
- Tougher than similar products
- Up to 25-year life expectancy under recommended conditions
- Dimensionally stable



PRODUCT SPECIFICATIONS

Standard product nomenclature	Colour	Standard roll length	Standard width	Application temperature range	Operating temperature range
Tape MVT-R	Metallic silver facing	50 m (164 ft)	72 mm (2.8 in)	+10 to +40 °C (+50 to +104 °F)	-5 to +93 °C (+23 to +200 °F)
Tape MVT-B	Matte silver facing	15 m (49 ft)	1000 mm (3.28 ft)	+10 to +40 °C (+50 to +104 °F)	-52 to +120 °C (-40 to +248 °F)

Dimensional tolerance: ±3%. Custom sizes available on request depending on MOQ.

MATERIAL PROPERTIES

Product	Tensile strength	Adhesion strength	Elongation at break	Permeance (metric)	Permeance (perms)
Tape MVT-R	100N/25mm (22.5 lbf/in)	20 N/25mm (4.5 lbf/in)	15%	6.1 ng.Pa ⁻¹ .s ⁻¹ .m ⁻²	0.1

Product	Density kg/m ³	Flammability	Permeance (metric)	Permeance (perms)
Tape MVT-B	1500 +/- 50	FMVSS302, Pass	0.33 ng. Pa ⁻¹ . s ⁻¹ . m ⁻² *	0.00567*

*Typical values for PET encapsulated aluminium foil as per ASTM E96

SURFACE PREPARATION

- Surfaces must be smooth, clean and free from grease, loose or flaking paint, dirt, and contaminants
- Surfaces can be cleaned with a degreasing solvent cleaner before applying the product
- Pressure should be used when applying to any surface, with Tape MVT-B, release liner gradually to avoid wrinkling
- Adhesion tests are recommended for powder coated surfaces
- Ageing trials should be performed on plasticised PVC
- Ideal for sealing joints and strengthening mechanical fasteners or fixings. Not to be used as mechanical joining devices
- It is essential, that the user evaluate product suitability for a particular application

STORAGE AND SHELF LIFE

Tape MVT needs to be stored away from direct sunlight in a clean, and dry environment with a stable temperature of between +10 to +40 °C (+50 to 104 °F) . It will have a shelf life of 12 months from the date of purchase if stored correctly.