

# Mechfit INDUSTRIES

ISO Certified Manufacturer of Polyethylene  
(PE-80/PE-100) Natural Gas Pipeline Fittings

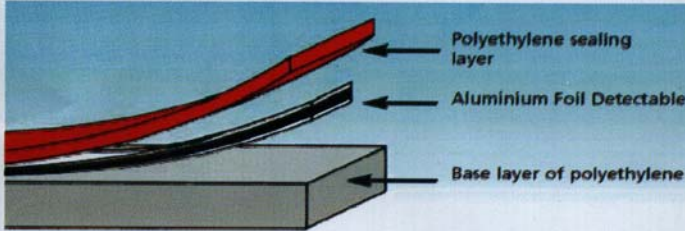


PIPELINE & CABLE  
WARNING & DETECTION

## DETECTABLE TAPE

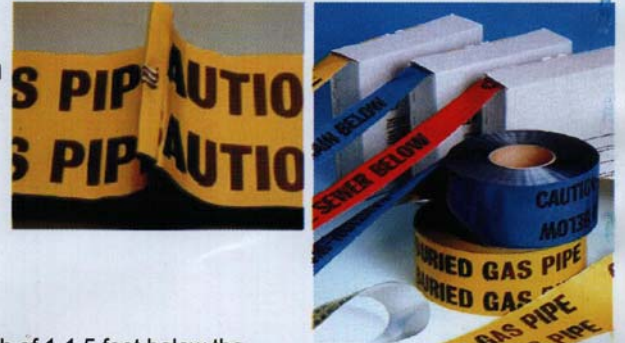
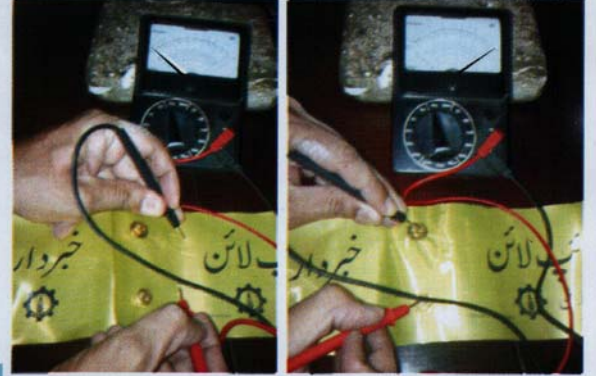
A strip of detectable aluminium foil totally encapsulated between a polyethylene base layer and polyethylene protective covering.

- Strip aluminium foil
- Totally encapsulated aluminium foil prevents corrosion
- High Tensile strength



A printed coloured plastic strip of detectable aluminum foil tape, permanently bonded between two layers of resistant plastic to prevent corrosion and increase its tensile strength.

- Available in many colours.
- Easily located by direct connection
- Continuous metallic tracer element



## DETECTION PROCEDURE

- The width of tape used, is 4" best suited to lay at the depth of 1-1.5 feet below the surface. The tape should be laid approximately halfway between the ground level and the depth of the buried gas pipeline, to achieve the best results of alarm and detection.
- A cathodic system is established at the site of line location by connecting +ve and -ve terminals of the "Transmitter" to the Earth and tape respectively. This creates electromagnetic field around the tape.
- The "Receiver unit is then moved along the tape, which detects exact location of the tape.
- The tape can be detected easily upto 1000 meters provided proper joining of the Tape ends and no leakage of the current in between the length due to damages of the Tape.
- At each 1000 Meters, Post Points may be developed for direct contact point of Detectable tape for making it -ve pole.
- To make proper contact of the Tape ends of aluminum foil, copper/brass nuts & bolts must be passed through the tape.
- These junction points should be wrapped by plastic tape so that current may not flow to earth.

- Solid Aluminum Foil Core • Clear Polyethylene Film Laminated Base Structure
- Acid, Alkali, Chemical, and Oil Resistant • Direct Burial Rated

## Applications and Information

Used for detecting, locating, identifying, and protecting buried utility lines for gas, water, sewer, telecommunication, and electrical. The width of tape used, is determined by the size of, and depth at which the underground utility line is buried. The depth at which detectable tape is buried, is determined by the width of the tape used.

- **DETECT:** Aluminum core is detected through means of inductive locating.
- **LOCATE:** Line is located and marked after inductive locating is performed.
- **IDENTIFY:** Utility type is identified by utility legend printed on the marking tape.
- **PROTECT:** Detectable tape works 24 hours a day and year round, even if tape is not inductively located during excavation, the tape provides a "stop-sign" effect that is highly visible.

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