

# 3M

# Aluminum Foil Tape

## 1449

### Technical Data

**Product Description** 3M™ Aluminum Foil Tape 1449 is an 1.4 mil (nominal) dead soft aluminum foil backing combined with a transparent, acrylic adhesive.

| Product Construction | Backing                 | Adhesive | Color        | Standard Roll Length |
|----------------------|-------------------------|----------|--------------|----------------------|
|                      | Dead soft aluminum foil | Acrylic  | Shiny silver | 60 yds. (55 m)       |

**Typical Physical Properties** **Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

| ASTM Test Method       |                                                     |        |
|------------------------|-----------------------------------------------------|--------|
| Adhesion to Steel:     | 37 oz./in. width (40 N/100 mm)                      | D-3330 |
| Tensile Strength:      | 19 lbs./in. width (333 N/100 mm)                    | D-3759 |
| Elongation at Break:   | 11%                                                 | D-3759 |
| Backing Thickness:     | 1.4 mils (0.04 mm)                                  | D-3652 |
| Total Tape Thickness:  | 2.6 mils (0.07 mm)                                  | D-3652 |
| Water Vapor:           | 0.1g H <sub>2</sub> O/100 in. <sup>2</sup> /24 Hrs. |        |
| Transmission Rate:     | (155g/m <sup>2</sup> .24h)                          |        |
| Temperature Use Range: | -25° to 250°F (-32° to 121°C)                       |        |

- Features**
- Can be used indoors or out for long term applications.
  - Thinnest 3M™ Aluminum Foil Tape for added conformability.
  - The acrylic adhesive combined with the durable aluminum backing offers ideal properties for long serviceable life both indoors and out.
  - Aluminum backing provides excellent reflection of both heat and light.
  - High formable foil alloy allows for application to complex shape surfaces.
  - Best adhesion results obtained when applied to clean dry surfaces about 32°F (0°C).

- Application Ideas**
- High conformability for wrapping applications.
  - General purpose heat reflector.
  - Mechanically hold wires and cooling coils to appliance walls.
  - Securing and heat transfer medium in the refrigeration industry.
  - General purpose holding, patching and sealing applications – indoors and out.

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|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                     | Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Shelf Life</b>                  | To obtain best performance, use this product within 18 months from date of manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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