## **3M**

# Heavy Duty Aluminum Foil Tape

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#### **Product Description**

3M<sup>TM</sup> Heavy Duty Aluminum Foil Tape 438 has a transparent acrylic adhesive to use when a heavier weight foil is required.

#### **Product Construction**

Backing	Adhesive	Color	Standard Roll Length
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.

		<b>ASTM Test Method</b>
Adhesion to Steel:	43 oz./in. width (47 N/100 mm)	D-3330
Tensile Strength:	59 lbs./in. width (1033 N/100 mm)	D-3759
Elongation at Break:	10%	D-3759
Backing Thickness:	5.0 mils (0.13 mm)	D-3652
Tape Thickness:	7.2 mils (0.18 mm)	D-3652
Temperature Use Range:	-65° to 300°F (-54° to 149°C)	
Water Vapor Transmission Rate:	$0.1 \text{ gms H}_2\text{O}/100 \text{ sq. in.}/24 \text{ hrs.}$ (1.55 g/m²/24 hrs.)	D-3833
Weight:	0.0217 lbs./yd./in. width (0.0109 kg/m/24 mm)	

#### **Features**

- Flame resistant. Meets U.L. 723, Class "L" low flammability rating (File R 7311).
- Meets requirements of F.A.R. 25.853(a).
- Foil backing provides an excellent reflective surface for both heat and light.
- Aluminum foil backing and acrylic adhesive system combine to offer long aging both indoors and out.
- The high coefficient of expansion offered by the aluminum allows expansion and contraction with changes in temperatures, along with thermal conductivity.
- Performs in a range from -65° to over 300°F (-54° to 149°C). Higher temperatures for shorter periods of time.

### 3M<sup>™</sup> Heavy Duty Aluminum Foil Tape

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#### **Application Ideas**

- Barrier, protector and thermal conductor in appliance (electronics) industry.
- Use when customer specification calls for a 5-mil (0.13 mm) foil as a barrier for vinyl coated wires in many applications in appliance industry.
- Patch tears in skins of aircraft and truck trailers.

#### Storage

Store under normal conditions of  $60^{\circ}$  to  $80^{\circ}$ F ( $16^{\circ}$  to  $27^{\circ}$ C) and 40 to 60% R.H. in the original carton.

#### **Shelf Life**

To obtain best performance, use this product within 24 months from date of manufacture.

#### **Product Use**

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