



# 431 Aluminium Foil Tape

(No. 439 Lined Version)

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## Product Data Sheet

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Updated : March 1996  
Supersedes : October 1993

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**Product Description** An aluminium foil with transparent acrylic adhesive designed for permanent sealing, holding, splicing or masking requiring the protection offered by a foil backing.

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**Physical Properties**  
Not for specification purposes

<b>Adhesive Type</b>	Acrylic	
<b>Backing</b>	Aluminium foil	
<b>Thickness</b> (ASTM D-3652)	90 µm	
<b>Backing Thickness</b>	50 µm	
<b>Tape Colour</b>	Shiny silver	
<b>Shelf Life</b>	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

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**Performance Characteristics**  
Not for specification purposes

<b>Adhesion to Stainless Steel</b> ASTM D-3330	4.4 N/10mm	
<b>Tensile Strength</b> ASTM D-3759	3.0 N/10mm	
<b>Elongation at Break</b> ASTM D-3759	5.0 %	
<b>Temperature Range Maximum</b>	150 °C	
<b>Water Vapour Transmission Rate</b>	.1.55g water/m <sup>2</sup> / 24h	

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<b>Additional Product Information</b>	Foil backing provides an excellent reflective surface for both heat and light.	Good, long ageing performance both indoors and out.	Low moisture vapour transmission rate offers excellent sealing and patching performance.
<b>Application Techniques</b>	Best results are attained when applied to a clean, dry and non dusty surface above 0°C.	To improve adhesion ensure firm an even application pressure is applied.	
<b>Applications</b>	Seal and patch tears in truck trailers, as well as other equipment tested outdoors.	Heat reflection and cold conduction in appliances.  Mechanical holding and splicing in general industry.	Good maskant in electroplating of aluminium, as well as other critical operations.
	<b>FEATURES</b>	<b>ADVANTAGES</b>	<b>BENEFITS</b>
	Aluminium foil backing.	Ultimate protection.	Protects parts from water, dust or chemical damage.
		Heat reflective.	Protects parts from heat.
		Non-flammable.	Will not aid combustion.
	Acrylic adhesive.	Long ageing.	Reduces cost of replacing damaged parts.
<b>Specifications</b>	Flame resistant U.L. Approved Class "L" low flammability.	No. 431 passed all requirements in accordance with F.A.A. Regulation No. 25, Paragraph 28.853. These tests, which include	flame retardant properties, are required on all materials used in cabin exteriors of commercial aircraft.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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**3M**

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