



425 Aluminium Foil Tape

(No. 427 Lined Version)



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Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description

A dead soft aluminium foil combined with a special transparent synthetic acrylic adhesive makes this

the best general purpose foil product available. No's. 425 and 427 have U.L. approval Class "L" for

low flammability. Can be used indoors or out for long term applications.

Physical Properties

Not for specification purposes

Adhesive Type	Acrylic	
Backing	Dead soft aluminium.	
Thickness (ASTM D-3652)	110 µm	
Release Liner	(No. 427 only) Easy release paper.	
Release Liner	80 µm	
Backing Thickness	80 µm	
Weight	.0068 kg/m/25mm	
Tape Colour	Silver (shiny)	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics

Not for specification purposes

Adhesion to Stainless Steel ASTM D-3330	5.9 N/10mm	
Tensile Strength ASTM D-3759	53.7 N/10mm	
Elongation at Break ASTM D-3759	7 %	
Temperature Range Maximum Minimum	+150 °C -54 °C	
Water Vapour Transmission Rate	1.55 g water/m ² 24hr.	

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Additional Product Information	<p>Reflective backing provides excellent radiation for both heat and light.</p> <p>The very low moisture vapour transmission rate makes No. 425 a good sealant.</p>	<p>The special permanent adhesive combined with the rugged, durable backing gives ideal properties for long service life both indoors and out.</p> <p>Good as a maskant in electroplating of aluminium, since it will not contaminate the bath.</p>	<p>Easily die-cut into a special size or shape (suggest use of No. 427 lined).</p> <p>Performance range from -55°C to 150°C continuously. Higher temperatures for shorter periods.</p>
Application Techniques	<p>Best results are attained when applied to a clean, dry and non dusty surface above 0°C.</p>	<p>To improve adhesion ensure firm and even application pressure is applied.</p>	
Applications	<p>General sealant indoors and out.</p> <p>Repair tears on truck trailers and aircraft.</p> <p>Moisture barrier e.g. around windows in aircraft, buses and in appliances.</p>	<p>Electroplating of aluminium.</p> <p>General purpose heat reflector.</p> <p>Mechanically holds wires and cooling coils to appliance walls. Acts as good heat source for defrosting, and evens out cold temperature.</p>	<p>Splicing of thin gauge foils.</p> <p>General purpose holding, patching, sealing applications.</p>
	FEATURES	ADVANTAGES	BENEFITS
	Aluminium foil backing.	Long term protection.	Protects parts from water, dust or chemical damage.
		Heat reflective.	Protects parts from heat.
		Non-flammable.	Will not aid combustion.
	Synthetic adhesive.	Long ageing.	Reduces need for replacing.

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Specifications	MIL-T-11291 (Ord.).	Fed Spec L-T-80.	Flame Resistant U.L. Class "L" Low.
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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.



Specialty Tapes & Adhesives

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