



# 420 Lead Foil Tape (Linered)

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## Product Data Sheet

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Updated : March 1996  
Supersedes : October 1993

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### Product Description

A lead foil backing combined with a crude rubber adhesive with a white, easy release film liner. No. 420 is a good conductor of electrical current and has good thermal properties.

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### Physical Properties

Not for specification purposes

<b>Adhesive Type</b>	Crude rubber (cream)	
<b>Backing</b>	Lead foil	
<b>Thickness</b> (ASTM D-3652)	190 µm	
<b>Release Liner</b>	80 µm	
<b>Backing Thickness</b>	130 µm	
<b>Weight</b>	0.0375 kg/m/25mm	
<b>Tape Colour</b>	Dark 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	3.8 N/10mm	
<b>Tensile Strength</b> ASTM D-3759	35.0 N/10mm	
<b>Elongation at Break</b> ASTM D-3759	15.0 %	
<b>Temperature Range</b> Maximum Minimum	105 °C -54 °C	
<b>Water Vapour Transmission Rate</b>	1.55 g / m <sup>2</sup> / 24hr	

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<b>Additional Product Information</b>	Very good conformability.	Good thermal properties and will perform over a wide variety of temperature conditions	(-55°C to 105°C) Has been used at higher temperatures for shorter durations.
<b>Application Techniques</b>	Best results are attained when applied to a clean, dry surface above 0°C. Also, by "feathering" the edges, rubbing the tape down with a smooth edged	plastic piece (or similar object), the tape is made to fully conform to the substrate. This is especially important if the tape is to be used as a	"thief" in electroplating or as an electrical conductor, since the edges must fully contact the metal base.
<b>Applications</b>	Electroplating. Radiation barrier.	Moisture barrier. Chemical milling patch work.	X-ray plate masking. Paint stripping of aircraft.

	<b>FEATURES</b>	<b>ADVANTAGES</b>	<b>BENEFITS</b>
	Lead foil backing.	Attenuates X-rays.  Ultimate protection.  Malleable.  Heavy.	Permits masking of x-ray film.  Protects parts from water, dust or chemical damage and radiation.  Conforms to surface.  Provides balance with little mass.
	Crude rubber adhesive.	Good chemical resistance.  Good solvent clean up.	Minimises undercutting. Straighter masking line.  Less labour to clean up.
	Silicone treated film liner.	Mirror smooth adhesive.  Die-cutable.	100% adhesive contact.  Offers potential for various shapes.

<b>Specifications</b>	Fed Spec HM-T-0029, Amendment 2, GSA-FSS when supplied with red cellophane liner.
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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.



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