



420 Lead Foil Tape (Linered)

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

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.

Physical Properties
Not for specification purposes

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

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Additional Product Information	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.
Application Techniques	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.
Applications	Electroplating. Radiation barrier.	Moisture barrier. Chemical milling patch work.	X-ray plate masking. Paint stripping of aircraft.
	FEATURES	ADVANTAGES	BENEFITS
	Lead foil backing.	Attenuates X-rays. Ultimate protection.	Permits masking of x-ray film. Protects parts from water, dust or chemical damage and radiation.
	Crude rubber adhesive.	Malleable. Heavy. Good chemical resistance.	Conforms to surface. Provides balance with little mass. Minimises undercutting. Straighter masking line.
	Silicone treated film liner.	Good solvent clean up. Mirror smooth adhesive. Die-cuttable.	Less labour to clean up. 100% adhesive contact. Offers potential for various shapes.

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Specifications

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.



Specialty Tapes & Adhesives

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