

Scotch™ brand No. 420 Lead Foil Tape (Linered)



Technical Data

SCOTCH BRAND NO. 420 LEAD FOIL TAPE (LINERED)

DESCRIPTION: A 5 mil lead foil backing combined with a rubber adhesive and a white, easy release film liner. No. 420 is used as a maskant in electroplating and as a moisture and radiation barrier.

CONSTRUCTION:

Backing:	Lead foil
Adhesive:	Rubber (cream)
Color:	Dark silver
Liner:	White, easy-release film
Roll Length:	36 yds. (33m)

TYPICAL PHYSICAL PROPERTIES: Not Recommended for Specification Purposes

		<u>ASTM METHOD</u>
Adhesion to Steel:	35 oz./in. width (38 N/100mm)	D-3330
Tensile Strength:	20 lbs./in. width (350 N/ 100mm)	D-3759
Backing Thickness:	5 mils (.13 mm)	D-3652
Tape Thickness:	7.5 mils (.19 mm)	D-3652
Liner Thickness:	3 mils (.08 mm)	D-3752
Elongation at Break:	15%	D-3759
Water Vapor Transmission Rate:	.1g H ₂ O/100 sq. in./24 hrs. (1.55g/m ² /24h)	D-3833
Weight:	.075 lbs./yd./in. width (.0375 kg/m/24mm)	

APPLICATION CONDITIONS:

Best results are attained when applied to a clean, dry surface above 32 °F (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 is an electrical conductor, since the edges must fully contact the metal base.

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GENERAL INFORMATION:

1. Very good conformability.
2. Good thermal properties and will perform over a wide variety of temperature conditions (-60°F to 225°F or -54°C to 106°C). It has been used a higher temperatures for shorter duration
3. Can be certified to Fed. Spec. HH-T-0029, Amendment 2, GSA-FSS when supplied with red cellophane liner.
4. Electrically and thermally conductive
5. Can be die cut into specific shapes.

POSSIBLE USES:

Electroplating
Radiation barrier
Moisture barrier
Chemical milling patch work
X-ray plate masking
Paint stripping of aircraft

FEATURES

Lead foil backing

Rubber adhesive

Silicone treated film liner

ADVANTAGES

Attenuates X-rays

Ultimate protection

Malleable

Heavy

Good chemical resistance

Good solvent clean up

Mirror smooth adhesive

Die-cutttable

BENEFITS

Permits masking of x-ray film

Protects parts from water, dust or chemical damage and radiation

Conforms to with little mass

Provides balance with little mass

Minimizes under cutting resulting in a straight masking line

Less labor to clean up

100% adhesive contact

Offers potential for various shapes

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3M Industrial Tape Division

3M Center Bldg. 220-8E-04
St. Paul, NM 55411-1000

