

Scotch™ brand No. 421 Lead Foil Tape



Technical Data

SCOTCH BRAND NO. 421 LEAD FOIL TAPE

TEMPORARY DATA PAGE
1990

DESCRIPTION: A lead foil backing with a rubber adhesive, offering excellent conformability in a variety of application conditions, indoors and out. It is electroplating and chemical milling, and as a moisture and/or radiation barrier.

CONSTRUCTION:

Backing:	Lead foil
Adhesive:	Rubber (cream)
Color	Dark silver
Roll Length:	36 yds. (33m)
Maximum Width:	19 in. (482 mm)

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:	17 oz./in. width (298 N/100mm)	D-3759
Backing Thickness:	4 mils (.1 mm)	D-3759
Tape Thickness:	6 mils (.15 mm)	D-3652
Elongation at Break:	10%	D-3652
Water Vapor Transmission Rate:	.1g H ² O/100 sq. in./24 hrs. (1.55 g/m ² 24hrs)	
Weight:	.06 lbs./yd./in. width (.034 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 as an electrical conductor, since the edges must fully contact the metal base.

GENERAL INFORMATION:

1. Very good conformability, easier and faster to work with than lined lead foil.
2. Good thermal properties and will perform over a wide variety of temperature conditions (-65°F to 225°F or -54°C to 106°C). Has been used a higher temperatures for shorter durations.

Scotch™ brand No. 421 Lead Foil Tape

Page 2

POSSIBLE USES:

- Electroplating
- Radiation barrier
- Moisture barrier
- Chemical milling
- X-ray plate masking
- Maskant during paint stripping
- Add weight (balance) to equipment parts or utensils (golf clubs, tennis tickets, etc.)

MAJOR INDUSTRIES AND SIC CODES:

- Plating
- Radiation equipment
- Duo panel windows
- Aircraft, automotive
- Medical, x-ray plates
- Aerospace
- Sporting goods wholesale
- Manufacturing

FEATURES

Lead foil backing

Rubber adhesive

ADVANTAGES

Ultimate protection

Malleable

Heavy

Good chemical resistance

Good solvent clean up

BENEFITS

Protects parts from water, dust or chemical damage and radiation

Conforms to surface

Provides balance with little mass

No undercutting

Reduces labor

Important Notice: All statements, technical information and recommendations herein are based on tests and data we believe to be reliable. But the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. No statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by officers of seller and manufacturer.

70-0703-0614-0

"Scotch" is a trademark of 3M

© 3M 1989

Litho in USA with 3M offset plates, film and proofing systems.

3M Industrial Tape Division

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

