

# MAGNETIC SHIELDING

## MAGNETIC SHIELDING FOIL

"The Best Material Available  
for Shielding DC, ELF & VLF Magnetic Fields"



Used for years in industry to shield delicate electronic components from EMFs, now available at affordable prices for home and office use. This 80% nickel alloy is easy to trim with scissors and shape by hand. Can be formed into magnetic barriers on cellular phones, microwave ovens, doorbell transformers, VDTs, buried wiring, and more. With snug fitting shapes, get as much as 75% attenuation of the magnetic field with one thickness. Use multiple layers for even greater reduction. **Foil is 15" wide by either 0.004" or 0.010" thick and can be ordered in any length.** (We recommend the use of a gaussmeter to determine the proper shape and positioning of the shielding, and to confirm that the fields have been adequately reduced.)

*CAUTION: Foil has sharp edges!*

### SPECIFICATIONS:

Wt: .004": 0.18 lb/ft<sup>2</sup>; .010: 0.45 lb/ft<sup>2</sup>  
Temper: Annealed  
Specification: MIL N 14411c, comp 1  
Grain Size: 10  
Hardness: HV 0.3 = 188  
Coercive Force: HC = 0.005 Oersteds  
Max. Permeability: MUMAX = 444000  
Saturation Induction: B (10 OE) = 7600G

### Chemical Analysis:

Ni: 80%, Fe: 15%, Mo: 5%  
trace amounts of S, C, Mn, Si, & P

**.004 (Cat. #R276-15) . \$24.95/lin ft**  
**.010 (Cat. #R276-10) . \$39.95/lin ft**

### Shielding Foil Installation Notes:

- Enclosure shapes are much more effective than flat shielding or partial enclosures
- Cylindrical shapes generally provide more shielding than sharp angle bends.
- You can enclose either the source of the offending field, or the object(s) you wish to protect.
- Allow at least 1" overlap & achieve good foil-to-foil contact at all seams.
- Do not solder or weld. Heating permanently reduces shielding effectiveness.
- Spacer shims of 1/16" to 1/2" between layers improves shielding effectiveness.
- Avoid sharp angle bends in the alloy.
- Foil can be glued, screwed, nailed, taped, riveted or stapled to a supporting surface.
- Apply protective covering to all exposed edges. Edges are SHARP!



## TIN SNIPS

*Great for Cutting Magnetic Shielding Materials*

10 inch long and heavy duty. Drop forged carbon steel, straight cutting. Double dipped soft comfort grip. Just right when you need to cut magnetic shielding materials including Giron, MagnetShield, and Magnetic Shielding Foil.

**Tin Snips (Cat. #R412) ..... \$11.99**

## EMP CAN™

*Versatile Shield for Both RF and Magnetic Fields*

Homeopathic remedies, credit cards and passports with chips, and electronic equipment can all be compromised by exposure to electromagnetic fields. The EMP Can™ is a great air-tight way to store these items and protect them from outside EMF influences including low grade EMP. Shields both radiofrequency *and* magnetic fields by 95% or more. All metal construction, nice wide mouth and quick-close latch keep contents secure. In addition, you can put a radiation source (such as a mobile phone or magnet) *inside* the EMP Can to contain the field. 3.6" wide x 6.5" high. **EMP Can™ (Cat. #R339) ..... \$14.95**



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