

MU-FERRO TAPE 3208

Mu-ferro foil and tape have been developed for low-frequency (LF) magnetic field shielding



Mu-ferro foil/tape is a thin foil; its thickness is only 0.023mm. It combines excellent soft magnetic properties with unusual mechanical hardness and flexibility. This means that tight bends can be realized with only very slight impairment of permeability. The fine strip thickness and comparatively low electrical conductivity permit effective shielding even of higher-frequency fields.

APPLICATIONS

The primary applications of Mu-ferro foil/tape are flexible shielded cables with small diameters and rapid, flexible solutions to problems at low field strengths.

OTHER APPLICATIONS

- Magnet heads
- Magnetic field sensors
- Chokes
- Transformers
- Electronic article-surveillance tags

ADVANTAGES

- Very high permeability
- Low losses

CHARACTERISTICS

Mu-ferro foil works well for shielding low-frequency magnetic fields. Due to the low electrical resistance it shields both low-frequency electric fields (LF) and high-frequency fields (HF). Comparable with Mu-Metal specifications.

PROPERTIES

- Easy to bend
- Easy to fold
- Can be cut with scissors
- Good corrosion resistance in a normal environment
- Bending, folding, cutting does not cause major loss of attenuation

GROUNDING

Due to the highly conductive surface this material can be grounded easily to shield low-frequency (LF) electric fields. For professional grounding please contact us.

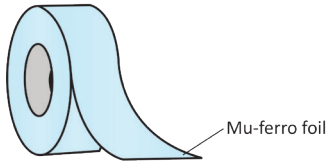
Width	Any width up to 50mm
Length	By the meter; rolls of up to 100m
Attenuation LF magnetic field	14 dB = 80 % (for more shielding, use multiple layers)
Permeability	μ_r
Saturation induction Bs	0.58 T
Density	7.7 g/cm ³
Curie temperature °C	200
Crystallization temperature Tx °C	530
Specific electrical resistance	1.4 $\mu\Omega$ m

These values are measured under laboratory conditions. In other situations results may differ. Please read our Guarantee.

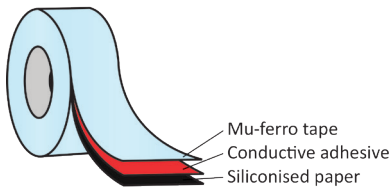


» MU-FERRO TAPE 3208

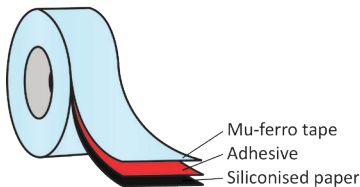
MU-FERRO FOIL (3284)



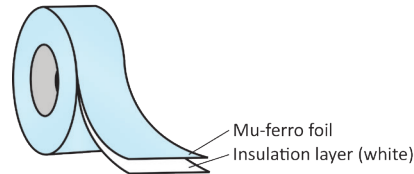
MU-FERRO TAPE WITH CONDUCTIVE ADHESIVE (3208)



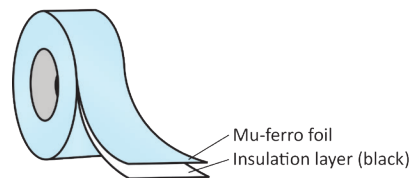
MU-FERRO TAPE WITH STANDARD ADHESIVE (3305)



STANDARD PART NUMBERS MU-FERRO FOIL WITH 0.15MM THICK, WHITE INSULATION LAYER (3408)



MU-FERRO FOIL WITH 0.22MM THICK, BLACK INSULATION LAYER (3468)



STANDARD PART NUMBERS

Specification	Part number				
	3284	3208	3305	3408	3468
Construction					
Product description	Mu-ferro foil	Mu-ferro tape with conductive adhesive	Mu-ferro tape with standard adhesive	Mu-ferro foil with 0.15mm thick, white insulation layer	Mu-ferro foil with 0.22mm thick, black insulation layer
Foil material	Mu-ferro	Mu-ferro	Mu-ferro	Mu-ferro	Mu-ferro
Surface	Silver color	Silver color	Silver color	Silver color	Silver color
Foil thickness	0.023mm	0.023mm	0.023mm	0.023mm	0.023mm
Total thickness	0.023mm	0.048mm	0.048mm	0.175mm	0.243mm
Adhesive	No adhesive	Synthetic conductive resin	Synthetic conductive resin	No adhesive	No adhesive
Adhesive performance	-	4.5 N/cm	4.5 N/cm	-	-
Tensile strength	-	-	-	-	-
Temperature resistance	-	-	-	-	-
El. resistance through adhesive	-	0.003 ohms	0.003 ohms	-	-
Standard roll widths (mm)	max. 50mm Other width on request				
Roll lengths	max. 100 m Other roll length on request				

These values are measured under laboratory conditions. In other situations results may differ. Please read our Guarantee.

*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

The product described in this data sheet shall be of standard quality, however the products are sold without warranty of fitness for a particular purpose, either expressed or implied, except to the extent expressly stated on HSS invoice, quotation or order acknowledgment. HSS does not warrant that products described in this data sheet will be free of conflict with existing or future patents of third parties. All risks of lack of fitness, patent infringement and the like are assumed by the user.