

Magnetic shielding for sensors and electronic devices

Electromagnetic fields can influence electrical equipment, magnetic systems and also living things.

For the magnetic shielding of electronic devices and PCBs, **mu-ferro HD 6800 series** is developed.

Mu-ferro HD is used to prevent low frequency magnetic radiation (0Hz – 300KHz) from leaving a device, or it is applied around a sensitive device or sensor, to prevent the electro magnetic interference from disrupting normal operations.

Mu-ferro HD offers important magnetic field shielding characteristics, due to its high magnetic permeability and its ability to absorb magnetic energy. This allows for the highest possible attenuation, making this shielding alloy the materials of choice for reducing low- frequency electromagnetic interference.

For magnetic shielding of electronic devices the mu-ferro 6800-HD is available in 1, 0.8 and 0.5 mm thick plate material. In addition we offer fabrication of custom shapes which will bring you the best shielding effect.

Mu-ferro HD is also available as a foil or tape, delivered on rolls (0,024 mm thick) with or without regular or conductive self adhesive for high frequency shielding and easy mounting. For more information see Holland Shielding Systems BV partnumber 3208.

Applications

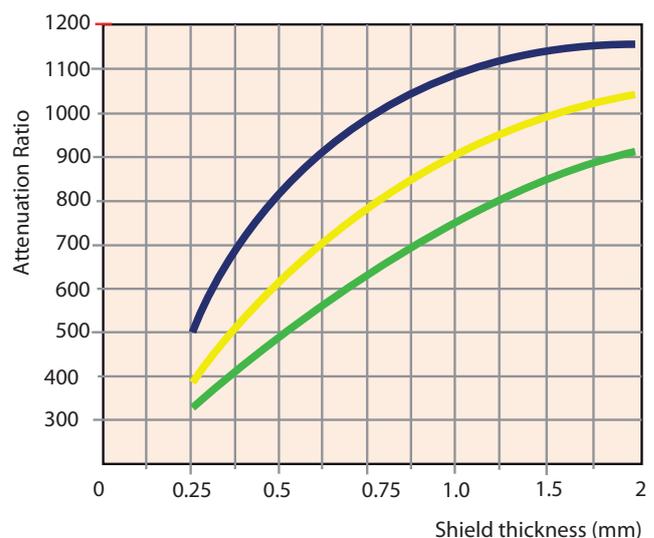
- Aviation and aerospace
- Sensitive sensors
- Medical equipment
- Physics research
- Telecommunication
- Automotive
- Military

Technical details (Mu-ferro HD compared to Pure iron)

Alloy	Composition	μ_4 (static)	$H_{c, stat}$ [A/m]	B_s [T]	T_c [°C]	Density [g/cm ³]
Mu-ferro HD	80% NiFe	30000	3	0,8	400	8,7
Pure iron	99,9% Fe	500	80	2,15	770	7,86



Shield thickness vs. Attenuation ratio at 50/60 Hz



- 80 Amp/meter
- 160 Amp/meter
- 320 Amp/meter

The above values are indicative. In practice, this may differ depending on the situation.