

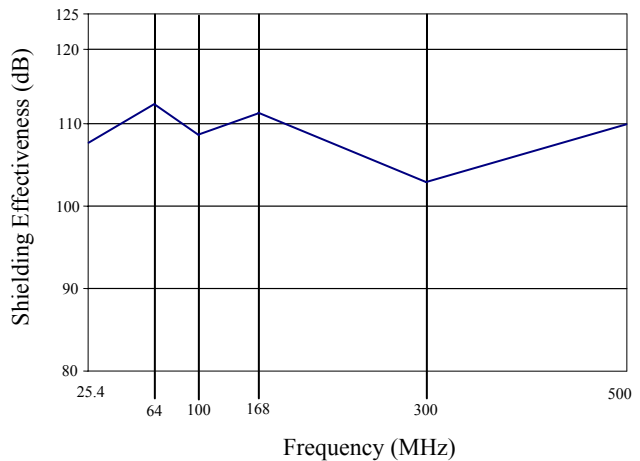


MRI Fabric for EMI & RFI Shielded Enclosures

Nickel/Copper Polyester Nonwoven Fabric is a unique shielding material manufactured using a patented, proprietary technology. The base layer is highly conductive copper, with an outer layer of nickel for corrosion resistance. Nickel/Copper Polyester Nonwoven Fabric offers excellent surface conductivity, shielding effectiveness, and corrosion resistance for MRI shielding applications.

- Manufactures and Installers of:
- MRI / RF Shielded Enclosures
 - Linear Accelerator Doors and Vaults
 - X-Ray Imaging Products
 - Unistrut Support Systems

Ni/Cu Polyester Non-Woven (3027-217)
Shielding Effectiveness per MIL-STD-285 (Mod.)



Physical Properties

Property	Units	Value	Advantage
Substrate		Polyester Nonwoven	Flexible, Breathable
Metal		Ni/Cu	Corrosion Resistant Highly Conductive
Basis Weight	oz./yd. ² g/m. ²	1.8 – 3.0 61 – 102	Light Weight
Thickness, (nominal) (ASTM D1777)	Inches microns	0.017 432	Provides excellent shielding
Metal Weight	oz./yd. ² g/m. ²	0.58 – 1.40 20 – 47	Excellent Electrical Properties
Max Short Duration Temperature		210°C	Allows Thermal Processing

Electrical Properties

Property	Units	Value ^{fi}
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Far-field Shielding Effectiveness (typical)		
At 25.4 MHz	dB	108+
At 64 MHz	dB	112+
At 100 MHz	dB	109+
At 168 MHz	dB	111+
At 500 MHz	dB	110+

Mechanical Properties

Property	Units	Value ^{fi}
Tensile Strength CMD/MD ^o (ASTM D5035)	lb./in N/100mm	7.5/18.5 128/324

Elongation, MD (ASTM D5035) 9%

^{fi} Typical values for greige fabric.

^o Cross Machine Direction/Machine Direction

Product No.: 3027-217

Nickel/Copper Polyester Nonwoven Fabric can be used in many different configurations to protect against EMI/RFI and ESD for a variety of applications and environments. Typical applications include: architectural shielding, gaskets, tapes, shielding materials, and ribbon.

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