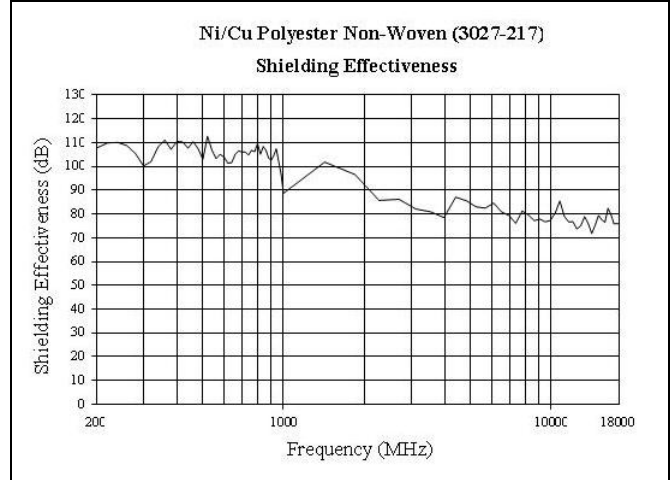




Nickel/Copper Polyester Nonwoven

Flectron® Nickel/Copper Polyester Nonwoven is a unique fabric, manufactured using a patented, proprietary technology. The base layer is highly conductive copper, with an outer layer of nickel for corrosion resistance. This technology combines the properties of these metals with the lightweight, permeability and flexibility of a nonwoven. Nickel/Copper Polyester Nonwoven offers excellent surface conductivity, shielding effectiveness, and corrosion resistance for a variety of applications.

Product No.: 3027-217



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	2.8 – 4.5 95 – 152	Light Weight
Thickness, (nominal) (ASTM D1777)	Inches microns	0.016 432	Provides excellent shielding
Metal Weight	oz./yd. ² g/m. ²	0.65 – 2.5 22 - 84	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 100 MHz	dB	105
At 1 GHz	dB	90

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

FLECTION® Nickel/Copper Polyester Nonwoven 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.

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Laird Technologies makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Laird Technologies be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. Nothing contained herein is to be construed as a recommendation to use any product, process equipment or formulation in conflict with any patent, and Laird Technologies makes no representation or warranty, express or implied, that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.