

# Swift Textile Metalizing



An INTEGRATED POLYMER SOLUTIONS Company

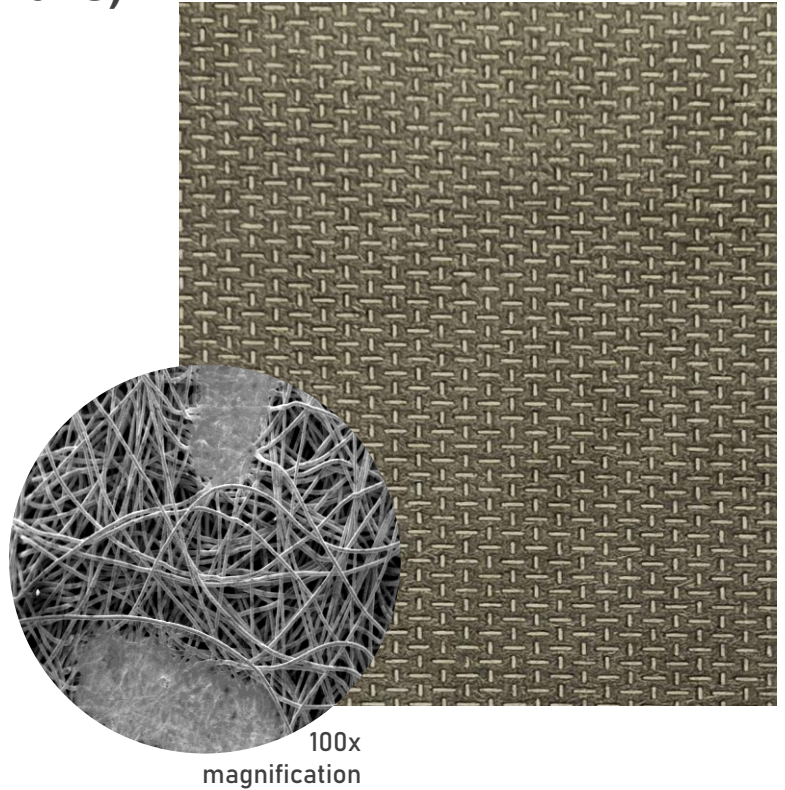
## Electrically Conductive Non-Woven Point Bonded Fabric, Ni Ag Coated (NPB20NS)

Thermally bonded, non-woven conductive fabric for applications requiring low electrical resistance, excellent mechanical durability and the ability to withstand harsh environmental exposure. Additional material characteristics include excellent breathability, dimensional stability and RF/EMI shielding performance.

### Features & Benefits

Our proprietary EnCap™ metalization process *completely* encapsulates each fiber in metal at the molecular level to deliver a durable, permanent, unbreakable bond while maintaining the mechanical properties of each fabric.

This process enables STM to *deliver best-in-class conductivity, durability, reliability and repeatability for maximum performance and lifecycle value.* As a result, STM materials are suitable for a variety of industries and applications.



Defense



Architectural Shielding



Security



Aerospace



Medical



Telecom

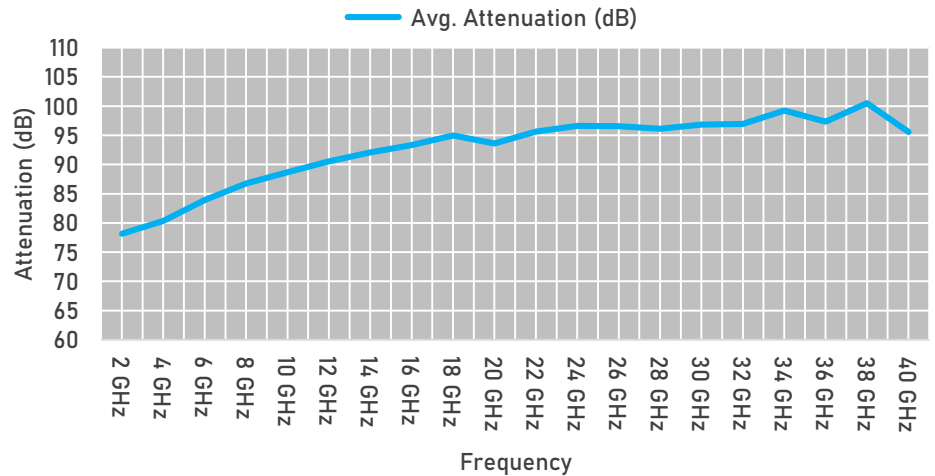
- RF signal reduction
- Secure work environments
- Shielded enclosures
- Directed energy mitigation
- Wi-Fi signal isolation
- Mobile device security
- Flexible circuits/sensors
- Component shielding
- EMI management

## Shielding Effectiveness – NPB20NS

### Shielding Effectiveness

This graph shows the typical shielding effectiveness of NPB20NS as measured with a free space focused beam test method at an industry-leading third party laboratory.

Tested by Compass Technology Group using test method CTG-TM-0101-2020  
[CTG-Focused-Beam-Shielding-Standard.pdf](#)



Material Specification – NPB20NS		
Base fabric: Non-woven point bonded nylon	Base fiber: Nylon 6,6	
Material coating: Silver, Nickel	Width: 36-37", nominal	
Property	Typical Value	Test Method
Shielding effectiveness @ 1 GHz	-70 dB	ASTM D4935
Water vapor transmission	814 g/m <sup>2</sup> - 24 hours	ASTM E96
Thickness	.015"	ASTM D1777
Weight	3.0 oz./yd <sup>2</sup>	ASTM D3776
Electrical resistance	0.1 Ω/sq.	ASTM D4496
Tear strength	8.0 lbs./in <sup>2</sup>	ASTM D5587

Note: The data presented above is based on test samples from multiple production batches and is representative of typical material properties.

## Call or email us today to discuss your project



Swift Textile Metalizing, LLC is a U.S. manufacturing company that specializes in the design, development and production of a wide range of electrically conductive and reflective metalized fabrics used in products that provide protection of people and equipment from Electromagnetic Interference (EMI), Radio Frequency Interference (RFI) and Static Discharge.

Since 1955 Swift Textile Metalizing has provided standard and custom conductive fabrics for aerospace, defense and commercial applications. STM brings together technology, innovative engineering and customer involvement to provide dynamic application solutions. STM's goal is to continually improve our industry leadership through the highest standards in product performance and service.



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