

CONDUCTIVE COMPOSITES

Making Plastics and Composites Conduct like Metals

Nickel Chemical Vapor Deposition (CVD) technology provides unique advantages:

Coatings can be placed on many fibers, including carbon, aramid, and high-performance glass fiber.

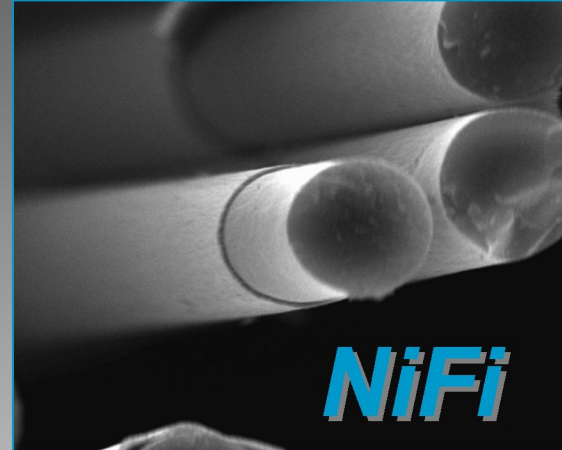
- Excellent coating thickness control
- Ductility
- Uniformity

Properties of Nickel

- Conductive
- Magnetic
- Corrosion Resistant

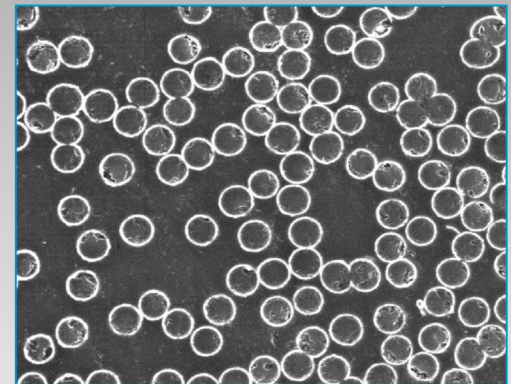
Applications and Markets:

- EMI Shielding
- Lighting Strike
- Nonwovens
- Flooring
- Cathodic Protection
- Medical Wires
- Sporting Goods
- Energy Storage



Nickel CVD Coated Fibers:

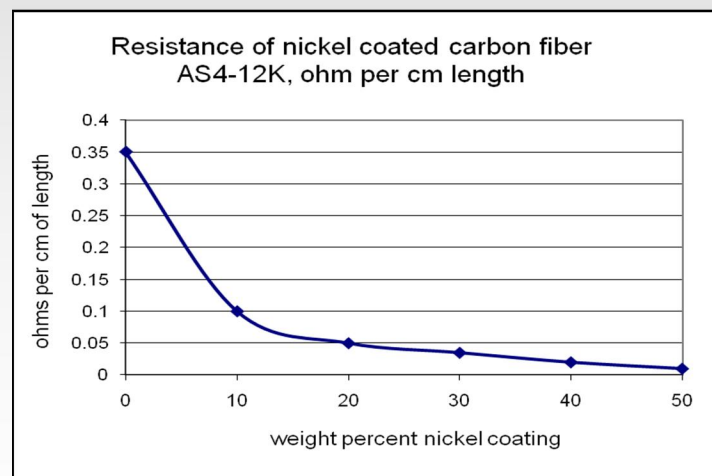
- Wide range of nickel coatings available (20-65 weight percent).
- Uniform resistivity throughout length of entire spool.
- Continuous in-line resistivity data.
- Every filament in the tow is uniformly coated.
- Coating substrates included carbon fiber, aramid, and glass fiber.
- Higher tensile strength retention.
- Increased damping properties.
- Engineered thermal properties.



Typical Properties:

Coating Weight: 20 - 65 wt% Nickel
Resistance: 4.5 - 0.5 ohm/m

Conductive Composites Company is a global technology leader in the development of innovative products and technologies that enable conductivity and electromagnetic shielding (EMI) solutions. Applications include composite materials, polymeric systems, and energy storage and transmission. Conductive Composites offers a portfolio of conductive products that includes nickel nanostrands, nonwovens, nickel-coated carbon fiber, and a line of conductive EMI shielding polymeric products. All materials are traceable, with ISO certification in progress. Additional capabilities include consultation services, contract research, engineered materials, and system solutions.



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