CONDUCTIVE COMPOSITES

ENABLING CONDUCTIVITY

ADVANCED MATERIALS

NIBOND™ CONNECT

NiBond Connect is an electrically conductive, high-strength, patented epoxy adhesive that provides excellent conductivity across bonds for a wide range of surfaces. Engineered to provide the highest combination of strength and conductivity at a lower price point than traditional conductive adhesives, NiBond uses a new class of highly-structured nickel to impart high conductivity performance at low loading levels. NiBond is ideal for applications in the aerospace, composites, communications, and many other industrial sectors that require the highest levels of performance to meet system requirements. Applicable with all standard methods, NiBond is a two-part formulation that is easy to mix and apply.

APPLICATIONS

- Electrical bonding
- Electrostatic discharge
- Electromagnetic shielding
- Lightning strike protection
- Structural adhesive

PERFORMANCE CHARACTERISTICS*

Mechanical Performance:

- Shear strength:
  27 MPa (ASTM D1002)
- Tensile strength
  35 MPa (ASTM D1002)

Electrical Performance:

- Bond gap resistance:
  < 0.02 Ω (ASTM D2739)
- Volume resistivity:
  < 0.25 Ω (ASTM D2739)

* all electrical performance values relative to a nominal ~125 µm bond thickness. Optimal performance can be achieved by post-curing at 65°C

GREY

GREEN

Available in base grey or tinted green

PRODUCT ADVANTAGES

- High electrical conductivity
- High strength (tensile, shear, and peel)
- Ferromagnetic and corrosion resistant
- Compatible with composites, metals, and ceramics
- Commonly used in demanding aerospace applications
- Highly competitive cost point

NIST COMPLIANT | CERTIFIED ISO 9001:2015 COMPANY | CERTIFIED ISO 45001:2018 COMPANY | MADE IN USA

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