

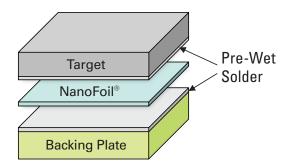
# NanoFoil®

A reactive multi-layer foil that provides localized heat up to 1500°C in a nanosecond!

NanoFoil® consists of thousands of nanoscale layers of aluminum and nickel, which react exothermally when initiated with an energy pulse. The foil creates a self-sustaining reaction that acts as a rapid and controllable localized heat source to melt adjoining solder layers, bonding components together. This process is called the NanoBond®.

#### **Features:**

- Localized heating components are not exposed to reflow temperatures; ideal for temperaturesensitive components
- Fluxless rapid, flux-free soldering at room temperature
- Flexible suitable for use with all solders
- Thermally conductive 6x to 10x better than non-conductive adhesives
- Instantaneous create stress-free bonds in milliseconds
- Easy ignition easily ignites with an electrical pulse, heat pulse (soldering iron), or laser pulse
- NanoFoil® becomes a non-functional part of the solder joint, yet is thermally and electrically conductive



Learn more: www.indium.com/solder-alloys Contact our engineers: askus@indium.com

# From One Engineer To Another

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

## **Packaging Options:**

- Tape & reel
- Waffle pack
- Bulk

#### **Packaging Options:**

• Sn readily available

#### **Applications:**

- HB LED attach
- Concentrated PV (CPV)
- Power amplifiers/RF attach
- Component mounting
- Thermal management
- · Post reflow of EMI shields
- Rework operations
- ...and more

### **Cutting Methods:**

- Laser cut ideal for high-precision complex shapes
- Stamping economical choice for simple shapes
- Hand cutting easy cutting for prototyping



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