

Indium Corp. NanoFoil® High Temperature Nickel and Aluminum Sacrificial Heat Source

Category : Metal , Nonferrous Metal

Material Notes:

As a sacrificial heat source in soldering and brazing applications, NanoFoil® is ideal for high-temperature applications. NanoFoil becomes a non-functional part of the solder or braze joint, eliminating the need for an oven or furnace and allowing for the use of higher temperature solders. Features: Rapid, controlled, locally applied heat source Instantaneous, flux-free soldering and brazing at room temperature Suitable for use with high-temperature solders or brazes Enables high-strength bonds between most combinations of materials Pb-free

Composition before Reaction - Alternating layers of Ni and Al
Composition after Reaction - Ni₅₀Al₅₀

Applications: Reaction initiation
Reaction delay
Fuses
Joining of dissimilar materials in large area formats, such as sputtering targets, armor, and other rigid assemblies
Soldering or brazing of temperature-sensitive electronics components or assemblies.

Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-NanoFoil-High-Temperature-Nickel-and-Aluminum-Sacrificial-Heat-Source.php

Physical Properties	Metric	English	Comments
Density	5.60 - 6.00 g/cc	0.202 - 0.217 lb/in ³	
Thickness	40.0 - 150 microns	1.57 - 5.91 mil	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	35.0 - 50.0 W/m-K	243 - 347 BTU-in/hr-ft ² -°F	

Descriptive Properties	Value	Comments
Heat of Reaction	1050 - 1250 J/g	
Maximum Reaction Temperature	1350° - 1500°C	
Reaction Velocity	6.5 - 8 m/s	

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