

## Indium Corp. Indalloy® 121 Sn-Ag Solder Alloy

Category : Metal , Nonferrous Metal , Solder/Braze Alloy , Tin Alloy

### Material Notes:

Binary solder has history of use, marginal wetting. Standard tin-silver eutectic solder with wide application when lead-based solders do not meet temperature, strength or safety requirements. Not recommended against gold-plated surfaces. Excellent for step soldering with #42, #106, #165 and #171. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-121-Sn-Ag-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-121-Sn-Ag-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.36 g/cc	0.266 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	40	40	
Tensile Strength, Ultimate	38.7 MPa	5610 psi	
Elongation at Break	73 %	73 %	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	33.0 W/m-K	229 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	
	@Temperature 85.0 $\text{Å}^\circ\text{C}$	@Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	
Liquidus	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Silver, Ag	3.5 %	3.5 %	
Tin, Sn	96.5 %	96.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000110 ohm-cm	0.0000110 ohm-cm	

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