

## Indium Corp. Indalloy® 3 In-Ag Solder Alloy

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

### Material Notes:

Has nearly the wettability and low temperature malleability of Indium. Solders silver, fired glass, and ceramics. Large plastic range. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-3-In-Ag-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-3-In-Ag-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.54 g/cc	0.272 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	2.7 @Load 100 kg, Time 30.0 sec	2.7 @Load 220 lb, Time 0.00833 hour	
Tensile Strength, Ultimate	11.4 MPa	1650 psi	
Elongation at Break	61 %	61 %	
Shear Strength	11.0 MPa	1600 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	67.0 W/m-K @Temperature 85.0 $\text{Å}^\circ\text{C}$	465 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$ @Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	143 - 237 $\text{Å}^\circ\text{C}$	289 - 459 $\text{Å}^\circ\text{F}$	
Solidus	143 $\text{Å}^\circ\text{C}$	289 $\text{Å}^\circ\text{F}$	
Liquidus	237 $\text{Å}^\circ\text{C}$	459 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	90 %	90 %	
Silver, Ag	10 %	10 %	

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric <sup>0780</sup> ohm-cm

English <sup>1780</sup> ohm-cm

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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