

## Indium Corp. Indalloy® 2 In-Pb-Ag Solder Alloy

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

### Material Notes:

Especially useful for soldering against gold, as leaching is minimized. Good thermal fatigue properties. Compatible with Indalloy numbers 204, 205, 206, 7, 10 and 150 in step-soldering applications. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-2-In-Pb-Ag-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-2-In-Pb-Ag-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	5.2	5.2	
	@Load 100 kg, Time 30.0 sec	@Load 220 lb, Time 0.00833 hour	
Tensile Strength, Ultimate	17.6 MPa	2550 psi	
Elongation at Break	58 %	58 %	
Shear Strength	14.8 MPa	2150 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	43.0 W/m-K	298 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	149 $\text{Å}^\circ\text{C}$	300 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	149 $\text{Å}^\circ\text{C}$	300 $\text{Å}^\circ\text{F}$	
Liquidus	154 $\text{Å}^\circ\text{C}$	309 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	80 %	80 %	
Lead, Pb	15 %	15 %	
Silver, Ag	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000130 ohm-cm	0.0000130 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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