

## Indium Corp. Indalloy® 4 Pure Indium Solder

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

### Material Notes:

Soft, ductile metal has good wettability on many surfaces including ceramics, glass and quartz. Deforms indefinitely under load and has no tendency to become brittle, making it valuable for cryogenic applications. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-4-Pure-Indium-Solder.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-4-Pure-Indium-Solder.php)

Physical Properties	Metric	English	Comments
Density	7.31 g/cc	0.264 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	0.90	0.90	
Tensile Strength, Ultimate	1.90 MPa	276 psi	
Elongation at Break	22 - 41 %	22 - 41 %	
Modulus of Elasticity	10.8 GPa	1570 ksi	
Shear Strength	6.10 MPa	885 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
Heat of Fusion	28.47 J/g	12.25 BTU/lb	
CTE, linear	29.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	16.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.243 J/g- $\text{Å}^\circ\text{C}$	0.0581 BTU/lb- $\text{Å}^\circ\text{F}$	Solid
Thermal Conductivity	86.0 W/m-K @Temperature 85.0 $\text{Å}^\circ\text{C}$	597 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$ @Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	157 $\text{Å}^\circ\text{C}$	315 $\text{Å}^\circ\text{F}$	
Solidus	157 $\text{Å}^\circ\text{C}$	315 $\text{Å}^\circ\text{F}$	
Liquidus	157 $\text{Å}^\circ\text{C}$	315 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	100 %	100 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000720 ohm-cm	0.00000720 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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