

## Indium Corp. Indalloy® 164 Pb-In-Ag Solder Alloy

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

### Material Notes:

This alloy is very useful in the 300°C range. It has particularly good thermal fatigue properties as well as the minimal gold leaching properties of indium-lead alloys. Often used in reducing atmospheres. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-164-Pb-In-Ag-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-164-Pb-In-Ag-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	11.02 g/cc	0.3981 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.4 MPa	4550 psi	
Shear Strength	19.5 MPa	2830 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 85.0 °C	@Temperature 185 °F	
Melting Point	300 - 310 °C	572 - 590 °F	
Solidus	300 °C	572 °F	
Liquidus	310 °C	590 °F	

Component Elements Properties	Metric	English	Comments
Indium, In	5.0 %	5.0 %	
Lead, Pb	92.5 %	92.5 %	
Silver, Ag	2.5 %	2.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000310 ohm-cm	0.0000310 ohm-cm	

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