

## Indium Corp. Indalloy® 10 Pb-In Solder Alloy

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

### Material Notes:

Indalloy's #7, #10, #150, #204, #205 and #206 comprise a group of lead-indium solders designed to cover the temperature range of 165°C-275°C. All have the minimum gold-leaching characteristics of lead-indium as well as good thermal fatigue properties. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-10-Pb-In-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-10-Pb-In-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	9.97 g/cc	0.360 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	10.2	10.2	
	@Load 100 kg, Time 30.0 sec	@Load 220 lb, Time 0.00833 hour	
Tensile Strength, Ultimate	37.6 MPa	5450 psi	
Elongation at Break	47.5 %	47.5 %	
Shear Strength	24.3 MPa	3520 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	26.0 µm/m-°C	14.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	18.0 W/m-K	125 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 85.0 °C	@Temperature 185 °F	
Melting Point	240 - 260 °C	464 - 500 °F	
Solidus	240 °C	464 °F	
Liquidus	260 °C	500 °F	

Component Elements Properties	Metric	English	Comments
Indium, In	25 %	25 %	
Lead, Pb	75 %	75 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000370 ohm-cm	0.0000370 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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