

## Indium Corp. Indalloy® 133 Sn-Sb Solder Alloy

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

### Material Notes:

Higher tensile strength solder than #121. Particular application is joining copper tubing in refrigeration and potable water systems. Has good wettability with good long time sheer strength at 100°C. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Indalloy-133-Sn-Sb-Solder-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-133-Sn-Sb-Solder-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.25 g/cc	0.262 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	13.3	13.3	
Tensile Strength, Ultimate	40.7 MPa	5900 psi	
Elongation at Break	38 %	38 %	
Shear Strength	41.4 MPa	6000 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	28.0 W/m-K	194 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	235 - 240 $\text{Å}^\circ\text{C}$	455 - 464 $\text{Å}^\circ\text{F}$	
Solidus	235 $\text{Å}^\circ\text{C}$	455 $\text{Å}^\circ\text{F}$	
Liquidus	240 $\text{Å}^\circ\text{C}$	464 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Antimony, Sb	5.0 %	5.0 %	
Tin, Sn	95 %	95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000140 ohm-cm	0.0000140 ohm-cm	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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