

Indium Corp. Indalloy® 19 In-Bi-Sn Fusible Alloy

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

Material Notes:

Environmentally safe fusible alloy. Contains no lead or cadmium. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-19-In-Bi-Sn-Fusible-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.88 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	11	11	
Tensile Strength, Ultimate	33.4 MPa	4840 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	
Liquidus	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	32.5 %	32.5 %	
Indium, In	51 %	51 %	
Tin, Sn	16.5 %	16.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000520 ohm-cm	0.0000520 ohm-cm	

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