

Indium Corp. Indalloy® 136 Bi-In-Pb-Sn Fusible Alloy

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

Material Notes:

General purpose fusible alloy. Wettability not outstanding. For use as solder. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-136-Bi-In-Pb-Sn-Fusible-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.01 g/cc	0.326 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	16.5	16.5	2mm ball
	@Load 4.00 kg	@Load 8.82 lb	
Tensile Strength, Ultimate	43.4 MPa	6290 psi	
Elongation at Break	20 %	20 %	% elongation on 5.65 (sq. root Area) gauge length

Thermal Properties	Metric	English	Comments
Heat of Fusion	28.9 J/g	12.4 BTU/lb	
CTE, linear	23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.167 J/g- $\text{Å}^\circ\text{C}$	0.0399 BTU/lb- $\text{Å}^\circ\text{F}$	Solid
	0.201 J/g- $\text{Å}^\circ\text{C}$	0.0480 BTU/lb- $\text{Å}^\circ\text{F}$	Liquid
Thermal Conductivity	10.0 W/m-K	69.4 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
	@Temperature 85.0 $\text{Å}^\circ\text{C}$	@Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	58.0 $\text{Å}^\circ\text{C}$	136 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	58.0 $\text{Å}^\circ\text{C}$	136 $\text{Å}^\circ\text{F}$	
Liquidus	58.0 $\text{Å}^\circ\text{C}$	136 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	49 %	49 %	

Indium, In Component Elements Properties	Metric	English	Comments
Lead, Pb	18 %	18 %	
Tin, Sn	12 %	12 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000710 ohm-cm	0.0000710 ohm-cm	

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