

Indium Corp. Indalloy® 117 Bi-Pb-In-Sn-Cd Fusible Alloy

Category : Metal , Nonferrous Metal , Lead Alloy

Material Notes:

General purpose fusible alloy. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-117-Bi-Pb-In-Sn-Cd-Fusible-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.16 g/cc	0.331 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	37.2 MPa	5400 psi	
Elongation at Break	37.5 %	37.5 %	% elongation on 5.65 (sq. root Area) gauge length

Thermal Properties	Metric	English	Comments
Heat of Fusion	36.8 J/g	15.8 BTU/lb	
CTE, linear	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Specific Heat Capacity	0.163 J/g-Å°C	0.0390 BTU/lb-Å°F	Solid
	0.197 J/g-Å°C	0.0471 BTU/lb-Å°F	Liquid
Thermal Conductivity	15.0 W/m-K	104 BTU-in/hr-ft ² -Å°F	
	@Temperature 85.0 Å°C	@Temperature 185 Å°F	
Melting Point	47.0 Å°C	117 Å°F	Eutectic
Solidus	47.0 Å°C	117 Å°F	
Liquidus	47.0 Å°C	117 Å°F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	44.7 %	44.7 %	
Cadmium, Cd	5.3 %	5.3 %	

Component Elements Properties	Metric	English	Comments
Lead, Pb	22.6 %	22.6 %	
Tin, Sn	8.3 %	8.3 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000380 ohm-cm	0.0000380 ohm-cm	

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