

Indium Corp. Indalloy® 7 In-Pb Solder Alloy

Category : Metal , Nonferrous Metal , Indium Alloy , 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-7-In-Pb-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.86 g/cc	0.320 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	9.6 @Load 100 kg, Time 30.0 sec	9.6 @Load 220 lb, Time 0.00833 hour	
Tensile Strength, Ultimate	32.2 MPa	4670 psi	
Elongation at Break	55 %	55 %	
Shear Strength	18.5 MPa	2680 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C @Temperature 20.0 °C	15.0 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	22.0 W/m-K @Temperature 85.0 °C	153 BTU-in/hr-ft ² -°F @Temperature 185 °F	
Melting Point	184 - 210 °C	363 - 410 °F	
Solidus	184 °C	363 °F	
Liquidus	210 °C	410 °F	

Component Elements Properties	Metric	English	Comments
Indium, In	50 %	50 %	
Lead, Pb	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000290 ohm-cm	0.0000290 ohm-cm	

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