

Indium Corp. Indalloy® 204 In-Pb Solder Alloy

Category : Metal , Nonferrous Metal , Indium 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-204-In-Pb-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.19 g/cc	0.296 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.8 MPa	3450 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	38.0 W/m-K	264 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
	@Temperature 85.0 $\text{Å}^\circ\text{C}$	@Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	165 - 175 $\text{Å}^\circ\text{C}$	329 - 347 $\text{Å}^\circ\text{F}$	
Solidus	165 $\text{Å}^\circ\text{C}$	329 $\text{Å}^\circ\text{F}$	
Liquidus	175 $\text{Å}^\circ\text{C}$	347 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	70 %	70 %	
Lead, Pb	30 %	30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000200 ohm-cm	0.0000200 ohm-cm	

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