

Indium Corp. Indalloy® 205 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-205-In-Pb-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.52 g/cc	0.308 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.6 MPa	4150 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m/m}\cdot\text{C}^\circ$	15.0 $\mu\text{in/in}\cdot\text{F}^\circ$	
	@Temperature 20.0 C°	@Temperature 68.0 F°	
Thermal Conductivity	29.0 W/m-K	201 BTU-in/hr-ft ² - F°	
	@Temperature 85.0 C°	@Temperature 185 F°	
Melting Point	173 - 181 C°	343 - 358 F°	
Solidus	173 C°	343 F°	
Liquidus	181 C°	358 F°	

Component Elements Properties	Metric	English	Comments
Indium, In	60 %	60 %	
Lead, Pb	40 %	40 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000250 ohm-cm	0.0000250 ohm-cm	

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