

Indium Corp. Indalloy 184 Gold Solder Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Gold Alloy , Solder/Braze Alloy

Material Notes:

Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-184-Gold-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	15.4 g/cc	0.556 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	254.93 MPa	36975 psi	
Modulus of Elasticity	83.01 GPa	12040 ksi	
Shear Strength	220 MPa	31900 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	27.0 W/m-K	187 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	363 $\text{Å}^\circ\text{C}$	685 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	363 $\text{Å}^\circ\text{C}$	685 $\text{Å}^\circ\text{F}$	
Liquidus	363 $\text{Å}^\circ\text{C}$	685 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Gold, Au	96.8 %	96.8 %	
Silicon, Si	3.2 %	3.2 %	

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