

Williams Advanced Alloys WS149 Solder

Category : Metal , Nonferrous Metal , Indium Alloy , Solder/Braze Alloy

Material Notes:

All Williams alloys are available in a variety of shapes and forms, including ribbon, preforms, rod, ring, wire, and custom shapes. Information provided by Williams Advanced Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS149-Solder.php

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	17.6 MPa	2550 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	15.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	43.0 W/m-K	298 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	149 $^{\circ}\text{C}$	300 $^{\circ}\text{F}$	
Solidus	149 $^{\circ}\text{C}$	300 $^{\circ}\text{F}$	
Liquidus	149 $^{\circ}\text{C}$	300 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	80 %	80 %	
Lead, Pb	15 %	15 %	
Silver, Ag	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002567 ohm-cm	0.00002567 ohm-cm	

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