

Williams Advanced Alloys WS174 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-WS174-Solder.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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	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	38.0 W/m-K	264 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	165 - 174 $^\circ\text{C}$	329 - 345 $^\circ\text{F}$	
Solidus	165 $^\circ\text{C}$	329 $^\circ\text{F}$	
Liquidus	174 $^\circ\text{C}$	345 $^\circ\text{F}$	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001955 ohm-cm	0.00001955 ohm-cm	

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