

Williams Advanced Alloys WS243 Solder

Category : Metal , Nonferrous Metal , Lead Alloy , Solder/Braze Alloy , Tin 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-WS243-Solder.php

Physical Properties	Metric	English	Comments
Density	9.39 g/cc	0.339 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 MPa	2900 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	11.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	41.0 W/m-K	285 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	185 - 243 $^{\circ}\text{C}$	365 - 469 $^{\circ}\text{F}$	
Solidus	185 $^{\circ}\text{C}$	365 $^{\circ}\text{F}$	
Liquidus	243 $^{\circ}\text{C}$	469 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	1.8 %	1.8 %	
Lead, Pb	63.2 %	63.2 %	
Tin, Sn	35 %	35 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001811 ohm-cm	0.00001811 ohm-cm	

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