

Williams Advanced Alloys WS257 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-WS257-Solder.php

Physical Properties	Metric	English	Comments
Density	9.66 g/cc	0.349 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 MPa	5000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.6 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	14.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@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	183 - 257 $^\circ\text{C}$	361 - 495 $^\circ\text{F}$	
Solidus	183 $^\circ\text{C}$	361 $^\circ\text{F}$	
Liquidus	257 $^\circ\text{C}$	495 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	70 %	70 %	
Tin, Sn	30 %	30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001849 ohm-cm	0.00001849 ohm-cm	

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