

Williams Advanced Alloys WS212 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-WS212-Solder.php

Physical Properties	Metric	English	Comments
Density	8.87 g/cc	0.320 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.4 MPa	6000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.6 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	47.0 W/m-K	326 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	183 - 212 $^\circ\text{C}$	361 - 414 $^\circ\text{F}$	
Solidus	183 $^\circ\text{C}$	361 $^\circ\text{F}$	
Liquidus	212 $^\circ\text{C}$	414 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	50 %	50 %	
Tin, Sn	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001578 ohm-cm	0.00001578 ohm-cm	

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