

Williams Advanced Alloys WS296 Solder

Category : Metal , Nonferrous Metal , Lead 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-WS296-Solder.php

Physical Properties	Metric	English	Comments
Density	11.02 g/cc	0.3981 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	24.1 MPa	3500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	26.0 W/m-K	180 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	287 - 296 $^{\circ}\text{C}$	549 - 565 $^{\circ}\text{F}$	
Solidus	287 $^{\circ}\text{C}$	549 $^{\circ}\text{F}$	
Liquidus	296 $^{\circ}\text{C}$	565 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	92.5 %	92.5 %	
Silver, Ag	2.5 %	2.5 %	
Tin, Sn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002263 ohm-cm	0.00002263 ohm-cm	

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