

Williams Advanced Alloys WS280A 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-WS280A-Solder.php

Physical Properties	Metric	English	Comments
Density	10.27 g/cc	0.3710 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	38.3 MPa	5550 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	17.0 W/m-K	118 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	270 - 280 $^\circ\text{C}$	518 - 536 $^\circ\text{F}$	
Solidus	270 $^\circ\text{C}$	518 $^\circ\text{F}$	
Liquidus	280 $^\circ\text{C}$	536 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	19 %	19 %	
Lead, Pb	81 %	81 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00003822 ohm-cm	0.00003822 ohm-cm	

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