

Williams Advanced Alloys WS305 Solder

Category : Metal , Nonferrous Metal , Precious Metal , Gold 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-WS305-Solder.php

Physical Properties	Metric	English	Comments
Density	14.81 g/cc	0.5350 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	276 MPa	40000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	15.9 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.83 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	57.0 W/m-K	396 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	280 - 305 $^{\circ}\text{C}$	536 - 581 $^{\circ}\text{F}$	
Solidus	280 $^{\circ}\text{C}$	536 $^{\circ}\text{F}$	
Liquidus	305 $^{\circ}\text{C}$	581 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Gold, Au	78 %	78 %	
Tin, Sn	22 %	22 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002234 ohm-cm	0.00002234 ohm-cm	

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