

Williams Advanced Alloys WS302 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-WS302-Solder.php

Physical Properties	Metric	English	Comments
Density	10.5 g/cc	0.379 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.3 MPa	4400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	15.5 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	36.0 W/m-K	250 BTU-in/hr-ft ² -°F	
Melting Point	275 - 302 °C	527 - 576 °F	
Solidus	275 °C	527 °F	
Liquidus	302 °C	576 °F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	90 %	90 %	
Tin, Sn	10 %	10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002098 ohm-cm	0.00002098 ohm-cm	

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