

Williams Advanced Alloys WS309 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-WS309-Solder.php

Physical Properties	Metric	English	Comments
Density	11.28 g/cc	0.4075 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.5 MPa	4420 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	30.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	23.0 W/m-K	160 BTU-in/hr-ft ² -°F	
Melting Point	309 °C	588 °F	
Solidus	309 °C	588 °F	
Liquidus	309 °C	588 °F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	97.5 %	97.5 %	
Silver, Ag	1.5 %	1.5 %	
Tin, Sn	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002867 ohm-cm	0.00002867 ohm-cm	

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