

Williams Advanced Alloys WS205 Solder

Category : Metal , Nonferrous Metal , Solder/Braze Alloy , Tin 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-WS205-Solder.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	36.5 MPa	5300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	58.0 W/m-K	403 BTU-in/hr-ft ² -°F	
Melting Point	183 - 205 °C	361 - 401 °F	
Solidus	183 °C	361 °F	
Liquidus	205 °C	401 °F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	15 %	15 %	
Tin, Sn	85 %	85 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001265 ohm-cm	0.00001265 ohm-cm	

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