

Williams Advanced Alloys WS183 Solder

Category : Metal , Nonferrous Metal , Lead Alloy , 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-WS183-Solder.php

Physical Properties	Metric	English	Comments
Density	8.34 g/cc	0.301 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.7 MPa	7500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	51.0 W/m-K	354 BTU-in/hr-ft ² -°F	
Melting Point	183 °C	361 °F	
Solidus	183 °C	361 °F	
Liquidus	183 °C	361 °F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	37 %	37 %	
Tin, Sn	63 %	63 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001458 ohm-cm	0.00001458 ohm-cm	

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