

## Williams Advanced Alloys WS199 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-WS199-Solder.php](http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS199-Solder.php)

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	40.0 MPa	5800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	24.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	59.0 W/m-K	409 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	183 - 189 °C	361 - 372 °F	
Solidus	183 °C	361 °F	
Liquidus	189 °C	372 °F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	20 %	20 %	
Tin, Sn	80 %	80 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001246 ohm-cm	0.00001246 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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