

## Williams Advanced Alloys WS181 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-WS181-Solder.php](http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS181-Solder.php)

Physical Properties	Metric	English	Comments
Density	8.42 g/cc	0.304 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	36.3 MPa	5260 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	23.0 W/m-K	160 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	134 - 181 °C	273 - 358 °F	
Solidus	134 °C	273 °F	
Liquidus	181 °C	358 °F	

Component Elements Properties	Metric	English	Comments
Indium, In	25 %	25 %	
Lead, Pb	37.5 %	37.5 %	
Tin, Sn	37.5 %	37.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002205 ohm-cm	0.00002205 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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