

Williams Advanced Alloys WS300 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-WS300-Solder.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|----------|
| Density | 11.02 g/cc | 0.3981 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|----------|----------|
| Tensile Strength, Ultimate | 31.4 MPa | 4560 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 | 25.0 W/m-K | 174 BTU-in/hr-ft ² -°F | |
| Melting Point | 300 °C | 572 °F | |
| Solidus | 300 °C | 572 °F | |
| Liquidus | 300 °C | 572 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Lead, Pb | 92.5 % | 92.5 % | |
| Silver, Ag | 2.5 % | 2.5 % | |
| Tin, Sn | 5.0 % | 5.0 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|-------------------|-------------------|----------|
| Electrical Resistivity | 0.00003127 ohm-cm | 0.00003127 ohm-cm | |

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