

## Williams Advanced Alloys WS96 Solder

Category : Metal , Nonferrous Metal , Bismuth 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-WS96-Solder.php](http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS96-Solder.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 9.58 g/cc | 0.346 lb/in <sup>3</sup> |          |

| Mechanical Properties      | Metric   | English  | Comments |
|----------------------------|----------|----------|----------|
| Tensile Strength, Ultimate | 22.1 MPa | 3200 psi |          |

| Thermal Properties   | Metric                                | English  | Comments |
|----------------------|---------------------------------------|--|----------|
| CTE, linear          | 38.0 $\mu\text{m/m-}^{\circ}\text{C}$ | 21.1 $\mu\text{in/in-}^{\circ}\text{F}$            |          |
|                      | @Temperature 20.0 $^{\circ}\text{C}$  | @Temperature 68.0 $^{\circ}\text{F}$               |          |
| Thermal Conductivity | 15.0 W/m-K                            | 104 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$ |          |
| Melting Point        | 96.0 $^{\circ}\text{C}$               | 205 $^{\circ}\text{F}$                             |          |
| Solidus              | 96.0 $^{\circ}\text{C}$               | 205 $^{\circ}\text{F}$                             |          |
| Liquidus             | 96.0 $^{\circ}\text{C}$               | 205 $^{\circ}\text{F}$                             |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Bismuth, Bi                   | 52 %   | 52 %    |          |
| Lead, Pb                      | 30 %   | 30 %    |          |
| Tin, Sn                       | 18 %   | 18 %    |          |

| Electrical Properties  | Metric            | English           | Comments |
|------------------------|-------------------|-------------------|----------|
| Electrical Resistivity | 0.00005375 ohm-cm | 0.00005375 ohm-cm |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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