

## SN100C® LEAD-FREE SOLDER ALLOY

### FEATURES

- Liquidus 227°C (441°F)
- Smooth, Bright Solder Joints
- Bridge-Free Soldering
- Low Cost - Does Not Contain Silver
- Reduced Copper Erosion from Holes, Pads and Tacks
- Dross Rate Similar to Tin-Lead Alloys
- Complies with IPC J-STD-006

### DESCRIPTION

SN100C is a lead-free silver-free solder alloy developed by Nihon Superior in Japan. SN100C offers user-friendly properties and has been proven in commercial applications since 1999. The inclusion of nickel reduces copper dissolution and produces a bright shiny solder fillet. The addition of germanium reduces dross formation and promotes solder flow. Performance in wave and selective soldering is similar to SAC alloys at considerably lower cost. SN100C is available in bar, solid and cored wire, and solder paste.

### AVAILABILITY

SN100C is available in 1.1 kg (2.5 lb) triangular bars, 3 kg AIM Safety Bar and Solid Wire. SN100C is also available in AIM flux cored wire solder and solder paste.

### TYPICAL ALLOY COMPOSITION

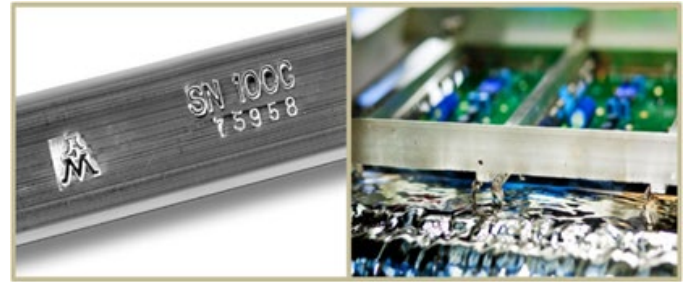
| TYPICAL ALLOY COMPOSITION |         |          |           |
|---------------------------|---------|----------|-----------|
| Sn: Balance               | Cu: 0.7 | Ni: 0.05 | Ge: 0.009 |

### TYPICAL MELTING TEMPERATURE

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|-----------------------------|
| 227°C (441°F) Eutectic      |

### TYPICAL SPECIFIC GRAVITY

| ALLOY DENSITY                             |
|---|
| 7.4 g/cm <sup>3</sup> (Archimedes method) |



### HANDLING & STORAGE

| PARAMETER  | TIME    | TEMPERATURE      |
|------------|---------|------------------|
| Shelf Life | 7 years | Room Temperature |

Solid wire and bar solder products have a shelf life of 7 years under proper storage conditions. For other product categories, refer to those product specific TDS's. Consult the SDS for specific handling procedures.

### FLUX COMPATIBILITY

SN100C bar solder is compatible with all no-clean and water soluble electronic grade fluxes.

### CLEANING

Refer to data sheets provided by the flux manufacturer.

### SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

\*All information for reference only. Not to be used as incoming product specifications or for process design. Consult Certificate of Analysis for product specific information.

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