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BAR SAC305

July 2013

PRODUCT DESCRIPTION

BAR SAC305 provides the following product characteristics:

| | |
|--------------------|-------------------|
| Technology | Solder bar |
| Application | Pb-free soldering |

BAR SAC305 alloy is designed for use as a Pb-free substitute for tin/lead alloys in most electronic assembly soldering applications.

FEATURES AND BENEFITS

- Best all-around Pb-free alternative
- Lowest melting point, high tin, Pb-free alloy without undesirable additions
- Enhanced wetting characteristics
- Passes IPC/EIA J-STD-006B requirements

TYPICAL PROPERTIES

| ELEMENT | Weight % |
|---------------|----------|
| Tin (Sn) | 96 +0.5 |
| Lead (Pb) | <0.05 |
| Antimony (Sb) | <0.1 |
| Copper (Cu) | 0.5 +0.1 |
| Silver (Ag) | 3.0 +0.2 |
| Aluminum (Al) | <0.001 |
| Arsenic (As) | <0.03 |
| Bismuth (Bi) | <0.1 |
| Cadmium (Cd) | <0.005 |
| Iron (Fe) | <0.02 |
| Nickel (Ni) | <0.007 |
| Gold (Au) | <0.005 |
| Zinc (Zn) | <0.001 |

Solder Bar Typical Properties

| | |
|-------------------------|---------------|
| Alloy | 97SC (SAC305) |
| Density | 7.4 |
| Alloy melting range, °C | 217 |
| Tensile Strength, MPa | 29.7 |

PACKAGING

BAR SAC305 is sold in economical 1000 lbs pallets.

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Not for Product Specifications

The technical information contained herein is intended for reference only. Please contact Henkel Technologies Technical Service for assistance and recommendations on specifications for this product.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

Note:

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