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BAR SAC0307

October 2013

PRODUCT DESCRIPTION

BAR SAC0307 provides the following product characteristics:

Technology	Solder bar
Application	Pb-free soldering

BAR SAC0307 alloy is designed for use as a Pb-free substitute for tin/lead alloys in most electronic assembly soldering applications. BAR SAC0307 is a low Ag version of the industry standard Tin-Silver-Copper Pb-free alloy.

FEATURES AND BENEFITS

- Best all-around Pb-free alternative
- Lowest Ag, Pb-free SAC alloy without undesirable additions
- Enhanced wetting characteristics
- Passes IPC/EIA J-STD-006B requirements
- Suitable for mixed technology builds

TYPICAL PROPERTIES

ELEMENT	Weight %
Tin (Sn)	98.9 to 99.1
Silver (Ag)	0.2 to 0.4 +
Copper (Cu)	0.6 to 0.8
Aluminum (Al)	≤0.001
Arsenic (As)	≤0.03
Gold (Au)	≤0.005
Bismuth (Bi)	≤0.05
Cadmium (Cd)	≤0.002
Iron (Fe)	≤0.02
Indium (In)	≤0.03
Nickel (Ni)	≤0.007
Lead (Pb)	≤0.05
Antimony (Sb)	≤0.1
Zinc (Zn)	≤0.001

Solder Bar Typical Properties

Alloy	SAC0307
Density, g/cm ³	7.4
Alloy melting range, °C	217 to 226
Tensile Strength, N/mm ²	29.5

PACKAGING

BAR SAC0307 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:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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