

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

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

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Note:

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