

**BAR SAC305**

July 2013

**PRODUCT DESCRIPTION**

BAR SAC305 provides the following product characteristics:

<b>Technology</b>	Solder bar
<b>Application</b>	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**

<b>ELEMENT</b>	<b>Weight %</b>
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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