

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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.0