

LOCTITE ARAX

February 2016

PRODUCT DESCRIPTION

LOCTITE ARAX provides the following product characteristics:

Technology	Flux
Application	Soldering - Cored wire

LOCTITE ARAX alloy is a tin/lead alloy used in traditional electronic assembly soldering applications.

FEATURES AND BENEFITS

- Reduces labor cost
- Assists automatic soldering processes
- Correct proportion of extra fast acting flux applied to each joint
- Safe, fast and easy to use

APPLICATIONS

Arax Cored Solder Wire is suitable for use on the following materials:

- Brass
- Bronze
- Cadmium Plating
- Copper
- Galvanized Ware
- Iron
- Lead
- Mild steel
- Nickel and nickel plating
- Silver
- Spring Steel
- Most stainless steel (using 96S ARAX)
- Tin Plate
- Zinc and zinc plating

ADVANTAGES

LOCTITE ARAX cored solder wire solders faster than using solid solder with a separate flux since only one operation is required which produces a more uniform spreading of the solder. The flux is automatically applied at the correct time, in the correct proportion and in the correct place.

Pre-cleaning is not normally necessary and the speed of its fluxing actions ensures that the solder will flow between laps by capillary action, giving maximum strength with the minimum amount of solder.

LOCTITE ARAX cored solder wire contains multiple cores of flux to ensure flux continuity and more rapid flux flow than would be obtained with a single central core. The flux is faster, yet less acidic than zinc chloride or similar liquid fluxes and spitting is reduced.

DIRECTIONS FOR USE

Flux Residues

The residues of the Arax flux would, under dry conditions, be non-corrosive. However, as the work is usually exposed to humidity,

the residues after soldering would, over a long period of time, absorb moisture, becoming mildly corrosive.

The residues should, therefore, be removed with water (preferably warm). However, where the flame heating is employed, the flux will be extensively volatilised by the soldering operation. In addition, it will not contaminate plating baths.

This flux residue, if not removed, is considerably less corrosive than most separate fluid or paste fluxes. Consequently, if LOCTITE ARAX cored solder wire is being used in place of stick solder and a fluid and flux residue was not previously removed, there should be no need to do so when using LOCTITE ARAX.

SUPPLY FORMS

LOCTITE ARAX is available in a range of alloys and wire diameters. This material is also available as a separate liquid or flux paste.

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.

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 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Loctite:](#)

[1042097](#) [536290](#)