

LOCTITE ABLESTIK CT4042-1

December 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK CT4042-1 provides the following product characteristics:

Technology	Epoxy
Appearance (Comp. A)	Silver
Appearance (Comp. B)	Silver
Components	Two components - requires mixing
Mixing Ratio, by weight Component A: Component B	100 : 100
Product Benefits	<ul style="list-style-type: none"> Electrically conductive Low levels of ionic contaminants
Cure	Heat cure
Application	Assembly

LOCTITE ABLESTIK CT4042-1 is a silver-filled, easy to apply, conductive epoxy paste adhesive. It is recommended for chip bonding in microelectronic applications. LOCTITE ABLESTIK CT4042-1 is an lower viscosity version of ECCOBOND CT4042 adhesive.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties CT4042-1A:

Viscosity 110,000, mPa·s (cP)	110,000
Density, g/cm ³	2.35
Flash Point - See SDS	

Part B Properties CT4042-1B:

Viscosity 75,000, mPa·s (cP)	75,000
Density, g/cm ³	3.4
Flash Point - See SDS	

Mixed Properties :

Pot life @ 25°C, 20gram mixture, days	4
Shelf Life @ 18 to 25°C (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Cure Schedule

120minutes @ 80°C
30minutes @ 120°C
15minutes @ 150°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Electrical Properties:

Volume Resistivity , Maximum, ohms-cm	1.5×10 ⁻³
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GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

DIRECTIONS FOR USE

1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

STORAGE:

Store in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal Storage: 18 to 25°C. Storage below 18°C or greater than 25°C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
psi x 145 = N/mm²
MPa = N/mm²
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

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