

LOCTITE C 932-51 E&C

April 2016

PRODUCT DESCRIPTION

LOCTITE C 932-51 E&C provides the following product characteristics:

Technology	Acetate
Appearance	Black
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> One component Electrically conductive Screen printable Good adhesion to a variety of substrates
Application	Conductive Ink and Coating
Typical Assembly Applications	Switches, Flexible circuits and RFI shielding

LOCTITE C 932-51 E&C is a carbon-filled ink and coating featuring electrical conductivity at a lower cost than its silver-filled counterpart.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	32,500
Specific Gravity, gm/cc	1.0
Shelf Life @ 25°C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minutes @ 80°C

Doubling cure schedules will improve conductivity and scratch resistance. Users should explore other cure schedules to suit application needs.

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

Physical Properties

Coverage @ 1 mil dry coating thickness, g/cm ² wet product	316
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Electrical Properties

Sheet Resistivity @ 25°C, ohms/sq/mil	20,000
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DIRECTIONS FOR USE

- If thickening occurs due to solvent loss or if a lower viscosity is desired for spray or other application, thin with Butyl cellosolve acetate.
- Solvent-thinned compound will result in a cured film with a higher sheet resistivity and should be used promptly; otherwise, periodically agitate solvent-thinned compound to avoid filler settling.

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 tightly sealed plastic or glass containers. Storage in metal containers can, over a period of time, cause irreversible gel to form at the interface between the material and the metal container. If separation occurs, stir gently until product is uniform. Avoid elevated temperatures.

Optimal Storage: 25°C. Storage below 25°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

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

GENERAL INFORMATION

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

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.

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