

**PRODUCT DESCRIPTION**

LOCTITE ABLESTIK 59C provides the following product characteristics:

<b>Technology</b>	Silicone
<b>Filler Type</b>	Silver
<b>Appearance</b>	Silver
<b>Percent Solids, %</b>	85
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• Thixotropic</li><li>• Electrically conductive</li><li>• Thermally conductive</li><li>• Pressure sensitive</li><li>• One component</li><li>• Contains solvent</li><li>• High flexibility</li><li>• High tack</li><li>• Reworkable</li><li>• Can be used with a variety of catalysts</li></ul>
<b>Cure</b>	Heat cure
<b>Application</b>	Assembly
<b>Operating Temperature</b>	-55 to +260°C

ABLESTIK 59C adhesive is designed for applications used at high temperatures which require electrical conductivity and do not need a high bond strength. It can be used in its cured or uncured state.

ABLESTIK 59C can be used with a variety of catalysts. For more information on mixed properties when used with other available catalysts, please contact your local technical service representative for assistance and recommendations.

**ABLESTIK 59 C may be employed as supplied.**

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

Density , g/cm <sup>3</sup>	2.4
Shelf Life @ 25°C, months	6
Flash Point	7 °C (44.6 °F)

**TYPICAL CURING PERFORMANCE**

For high bond strength at elevated temperatures (150 to 260°C), mix 2% by weight with Catalyst 59 prior to application.

**Cure Schedule**

6 hours @ 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****Physical Properties**

Coefficient of Thermal Expansion TMA, 10 <sup>-6</sup> /°C	63
Thermal Conductivity , W/(m-K)	7

**Electrical Properties**

Volume Resistivity @ 25°C, ohm-cm	0.0002
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**TYPICAL PERFORMANCE OF CURED MATERIAL****Miscellaneous:**

Tensile Lap Shear Strength, psi: Aluminium to Aluminium	20
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**GENERAL INFORMATION**

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

**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. Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
3. Apply adhesive to all surfaces to be bonded and join together.
4. Allow the solvent to evaporate until the film passes through a highly tacky state and then becomes only slightly tacky. This process normally takes 10 to 20 minutes.
5. If the adhesive is allowed to stand too long on the surfaces, all tackiness will be lost. Tackiness can usually be restored by applying small amounts of Toluene to the surface.
6. Join surfaces to be bonded and apply pressure. Usually, hand pressure is satisfactory.

**Storage**

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

**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.

**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.



