

LORD® 6144 Silver Conductor

Technical Data Sheet

LORD® 6144 silver conductor is a one-component, thermosetting conductive epoxy designed for surface mount attachment of electronic component devices. It is primarily used as a chip-to-lead frame adhesive for tantalum capacitors.

Features and Benefits:

Application Diversity – may be applied by screen printing, syringe or pin transfer.

Excellent Adhesion – cured film provides excellent mechanical properties with good bonding to a variety of surfaces.

Excellent Conductivity – cured film provides excellent electrical conductivity.

Application/Processing:

Applying – Before using, allow material temperature to adjust to ambient conditions. Consult handling instructions for specific guidelines. Once thawed, working life of material is 8 hours at 25°C.

Apply material by screen printing, syringe dispensing or pin transfer. For screen printing, use a 200 mesh screen with 1.0-1.5 mil organic emulsion backing. Use of a medium to hard silicone squeegee is recommended.

Curing – Minimum curing profile is 125°C for 15 minutes. Optimum cure schedule will vary depending on application and will need to be determined empirically.

Cleanup – Use conventional organic solvents such as acetone or isopropyl alcohol for cleanup.

Shelf Life/Storage:

Shelf life is eight weeks from date of manufacture when stored at -15°C in original, unopened container.

This material is shipped frozen. Material should be stored frozen until ready for application. Consult handling instructions** for thawing.

**Handling instructions are available on LORD.com.

Typical Properties*

Appearance	Silver Paste
Viscosity, Kcps @ 25°C Brookfield HBT Spindle CP-51, 10 rpm	5-7
Cured	
Resistivity, ohms-cm Cured @ 125°C for 15 minutes	≤0.0002

*Data is typical and not to be used for specification purposes.



ENGINEERING YOUR SUCCESS.

Cautionary Information:

Before using this or any Parker LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this document represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

Information provided herein is based upon tests believed to be reliable. In as much as Parker LORD has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, Parker LORD does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

WARNING — USER RESPONSIBILITY. FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

©2020 Parker Hannifin - All Rights Reserved

Information and specifications subject to change without notice and without liability therefor. Trademarks used herein are the property of their respective owners.

OD DS3815 10/20 Rev.4



Parker LORD
Engineered Materials Group

111 LORD Drive
Cary, NC 27511-7923
USA

phone +1 877 ASK LORD (275 5673)

www.lord.com