

# LORD® 6144S Silver Conductor

## Technical Data Sheet

LORD® 6144S 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<br>Brookfield HBT<br>Spindle CP-51, 10 rpm | 9-11         |
| <b>Cured</b>  |              |
| Resistivity, ohms-cm<br>Cured @ 125°C for 15 minutes              | <0.00035     |

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



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## 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.

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OD DS4005 10/20 Rev.1



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