

# Silductor 6250

## Electrically Conductive Silicone Adhesive Paste

Typical Properties			
Property	Unit	Value	Test Method
Color / Component		Silver-Copper	Visual
Viscosity at 25°C	Pa.s	150 ~ 630 Paste	ASTM D2196
Density	Gram /cc	4.7	ASTM D792
Weight loss in cure	Weight %	< 0.6%	TGA
Property as Cured			
Color		Silver / Yellow	Visual
Hardness	Shore A	50	ASTM D2240
Tensile Strength	MPa	3.2	ASTM D638
Elongation	%	150	ASTM D638
Volume Resistivity	Ohm-cm	< 0.005	ASTM D257
Coefficient of Thermal Expansion	ppm/C	< 160	IPC-TM-650
Thermal Conductivity	W/m-K	> 4	ASTM D5470
Adhesion (Al/Al lap shear)	Psi	> 150	ASTM D1002
Tg	°C	-120	DMA
Temperature Usage	°C	- 50 to 230	TGA
Cure Profile			
Cure at 125 °C	Min	60	DSC
Cure at 150 °C	Min	30	DSC
Pot / Work Life at 25°C	Hr	> 72	Viscosity double
Shelf Life @ -15°C	Month	6	ITM

These figures are only intended as a guide and should not be used in preparing specifications.

### Processing Instruction

**Important!** Silductor 6250 is platinum cure system. Please keep applied surface clean and avoid using this material on any surface that contains sulfur, amine, phosphorous, organo-metals, acid, etc., because these contaminants could inhibit the cure of the material.

Always store unused Silductor 6250 in freezer (-15°C) to prevent any possible deteriorating of the material.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives, Inc.

### Characteristics

Silductor 6250 is a Silver-Copper filled electrically conductive silicone adhesive designed for electronic applications. After cure at elevated temperature, it forms a flexible, rubbery conductive adhesive having electrical and thermal conductivity with strong bonding to various metals surfaces. It is used for low stress soldering, connecting, conducting, and grounding applications. Silductor 6250 is printable paste.

### Special Features and Benefits

- Electrically conductive paste
- Flexible for low stress bonding
- High thermal conductivity
- High temperature stability
- Strong bonding to various surfaces
- Low bleeding, low volatile
- Low ionic content

### Typical Applications

- Aerospace and Automotive electronics
- Semiconductor and Telecommunications
- Conducting while dissipating heat
- Grounding of power devices
- EMI shielding and gasketing
- Thermally conductive bonding

Silductor 6250 has a shelf life of at least 6 months when stored at -15°C in the originally sealed container.

### Storage

Silductor 6250 has a shelf life of at least 6 months when stored below -15°C in the originally sealed container. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

### Safety information

General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives, Inc.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. For technical, quality, or product safety questions, please contact directly to United Adhesives Inc.