

# Eposolder 6763

## Epoxy Electrically Conductive Adhesive

Typical Properties			
Property	Unit	Value	Test Method
Color / Component		Silver-Copper	Visual
Viscosity at 25°C	cP.s	47,000	ASTM D2196
Thixotropic Index		3.2	ASTM D2196
Density	Gram /cc	3.6	ASTM D792
Weight loss in cure	Weight %	< 0.4%	TGA
Property as Cured			
Color		Silver-Copper	Visual
Hardness	Shore D	60	ASTM D2240
Volume Resistivity	Ohm-cm	< 5 × 10 <sup>-3</sup>	ASTM D257
Adhesion (Al/Al lap shear)	Psi	> 800	ASTM D1002
Coefficient of Thermal Expansion	ppm/C	< 130	IPC-TM-650
Thermal Conductivity	W/m-K	> 4.0	ASTM D5470
Temperature Usage	°C	- 50 to 230	TGA
Cure Profile			
Cure at 80 °C	Hrs	6	DSC
Cure at 125 °C	Min	60	DSC
Cure at 150 °C	Min	30	DSC
Pot / Work Life at 25°C	Hr	24	Viscosity double
Shelf Life @ -30°C	Month	6	ITM

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

### Characteristics

Eposolder 6763 is an epoxy-based electrically conductive adhesive designed for electronic applications. It is filled with silver-coated-copper conducting filler. After cure at elevated temperature, it forms a strong bonding adhesive having effective electrical and thermal conductivity. It is used for solder replacement / electrical connecting / conducting / grounding, or EMI/RF shielding applications. Eposolder 6763 is dispensable and printable.

### Special Features and Benefits

- Effective electrical conductivity
- Strong structural bonding
- High thermal conductivity
- High temperature stability
- Low bleeding, low volatile

### Typical Applications

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

Eposolder 6763 has a shelf life of at least 6 months when stored at - 30°C in the originally sealed container.

### Processing Instruction

Eposolder 6763 is required to store in freezer (- 30°C to - 40 °C). Before apply it, please let it thaw completely at room temperature. This typically takes about 10 min for syringes and 30 min for jars.

For thin coating application, in order to get best result, Eposolder 6763 may be diluted using a solvent, e.g. isopropyl alcohol.

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.

### Storage

Eposolder 6763 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

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.