

# RESIN TECHNOLOGY GROUP, LLC

## PRODUCT DATA SHEET



### SILVER CONDUCTIVE Flexible, Silver-Filled Epoxy Adhesive

#### TIGA 920-H

#### Flexible Silver Conductive

---

#### Description:

TIGA 920-H is a flexible, conductive silver filled epoxy adhesive. It is recommended for bonding, and sealing electronic applications that require high flexibility, conductivity, and mechanical performance. This smooth paste formulation of pure silver and epoxy is free of solvents and extraneous additives. It develops strong, durable, electrically and thermally conductive bonds between many dissimilar materials including metals, ceramics and plastic laminates. TIGA 920-H cures at room temperature and can be used as a flexible “cold solder” for heat sensitive parts. It can also be used in the assembly and repair of flexible circuits, electrical components and electronic shielding.

#### Typical Values After

#### Various Cure Schedules:

Bond Line <u>Cure Schedule</u>	Volume Resistivity <u>Ohm-Cm</u>
12-24 Hours @ 25°C	0.005
2 Hours @ 65°C	<0.001
1 Hour @ 110°C	<0.001

#### Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

#### Typical Physical Properties

Color:	Silver
Specific Gravity:	2.9
Viscosity, cps @ 25°C:	Smooth Paste
Mix Ratio, parts by weight, Resin to Hardener:	100 to 115
Operating Temperature Range:	-60 to 110°C
Hardness, Shore D:	55
Thermal Conductivity, cal-cm/cm <sup>2</sup> sec°C:	37 x 10 <sup>-4</sup>
Reactive solids content, %:	100
Pot Life @ 25°C	3 Hours
Lap Shear Strength (Al/Al)	>1000 psi
Lap Shear Strength (Au/Au)	>500 psi
Lap Shear Strength (Kapton®)	>500 psi

R.T.G., LLC MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS OR OTHERWISE with respect to its products. In addition, while the information contained herein is believed to be reliable, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. All recommendations or suggestions for use are made without guarantee-in as much as conditions of use are beyond our control. The properties given are typical values and are not intended for use in preparing specifications. Users should make their own test to determine the suitability of this product for their own purposes.