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## 121-03

## HI-TEMP, ELECTRICALLY CONDUCTIVE ADHESIVE

**DESCRIPTION**: 121-03 is a single component, silver filled, electrically conductive epoxy adhesive suitable for application by screen-printing, stenciling and syringe dispensing. This product is designed for assembling heat sinks, well as electrical and electronic components. The cure schedule allows for rapid processing and the resulting bond exhibits excellent thermal stability, thermocycle resistance and adhesion at high temperatures. 121-03 is a lower viscosity version of 102-42.

## **TYPICAL CURED PROPERTIES:**

Viscosity (cps.) 40,000 - 50,000

Filler Silver Percent Silver, cured > 70 Volume Resistivity, max. ( $\Omega$ -cm) 0.005 Solderable No

Hydrolytic Stability Excellent Useful Temperature Range (°C) -55 to +200 Thermal Stability (°C) Good to 325

T-Shear Strength (psi) 1000 Thermal Conductivity (W/mK) 6.75

**SUGGESTED HANDLING & CURING**: 121-03 is ready to use as supplied. Before using be sure to resuspend the filler. Apply adhesive to surface to be bonded by hand and/or automatic method and assemble. Apply slight pressure to assure good mating of surfaces and formation of filet. Best properties for most applications result when cured for 45 minutes at 155°C, or 30 minutes at 175°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 130°C to 200°C. End user is advised to experimentally determine temperature and time best suited for individual applications. **Note:** It is not unusual for crystallization of the 121-03 to occur. Warm to 40-45°C in a water bath to return the material to it's original viscosity. The crystallization does not effect the performance of the product in any way.

STORAGE: Shelf Life: 3 weeks at 25°C; or 3 months at 5°C; or 6 months at -10°C.

**SAFETY & HANDLING**: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.