



# APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

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## TECHNICAL DATA & INFORMATION

### APTEK® 6550-A/B

Thermally conductive, electrically insulating, "Blob Top" encapsulant

### PRODUCT DESCRIPTION

**APTEK 6550-A/B** is a two component, mineral-filled, epoxy system designed to encapsulate microelectronic chips and circuitry.

### KEY FEATURES AND BENEFITS

- High thermal conductivity to prevent unwanted heat buildup in sensitive devices
- 100% solids/no diluents for low outgassing during cure and service
- Low levels of ionic contamination to minimize corrosion problems
- Thixotropic, non-flow for C.O.B. and tab applications
- Easy to vacuum for void-free castings

### HANDLING INFORMATION

(not to be used for specification purposes)

Mix ratio, parts by weight	100 (6550-A)/100 (6650-B)
Work life*, @ 25°C, 50% RH, 300 gm, hours *adversely affected by heat and increased humidity	8
Gel time, 10 gms, @ 150°C, mins	3-5
Mixed viscosity, @ 25°C, cps	190,000

#### Handling Notes

- During storage the filler may settle. Before use, check for settlement in Part A and Part B with a clean metal spatula and remix slowly by hand until uniform.
- Part B is moisture sensitive. After use, purge container with dry N<sub>2</sub> or argon, keep container tightly closed during storage.

### MIXING

Weigh 100 parts by weight of APTEK 6550 Part A into a clean, dry, glass, metal, or plastic container and then add 100 parts by weight of APTEK 6550 Part B. Hand mix with a clean, dry, metal spatula until complete and thorough blending is achieved. Care should be taken to avoid any source of moisture contamination or air entrapment during mix. Mixture may be warmed to 35°C to facilitate degassing and handling.

Note: For best results and void free castings, vacuum mixture (25-35°C) at less than 15mm Hg for 5 minutes after "break".

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**SAFETY AND FIRST AID**

Avoid contact of resin and hardener with skin and eyes. If contact occurs, wash skin with soap and water. For eye contact, flush profusely with fresh water and call physician. Always mix and apply these materials in a well ventilated area. Refer to Material Safety Data Sheet for more details.