

## Specialty Adhesives for *Medical Electronics and Instrumentation* including *USP Class VI Bio-Compatible Materials*



*Innovative Epoxy Adhesive Solutions for Over 40 Years*

**Epoxy Technology, Inc**® is a leading supplier to the medical device industry for over 40 years. Our products are used in the most challenging applications needing optical transmissions, high degrees of bond-strength and resisting hostile environments such as high temperature, radiation and chemicals.

Epoxy Technology has an extensive line of bio-compatible grade adhesives for medical applications such as sensors, instruments, hearing aids, pacemakers and catheter products with the following characteristics:

- \* **21 Certified USP Class VI Bio-Compatible Materials**
- \* **ISO-10993 Compliant**
- \* **Excellent resistance to various sterilization techniques including:**
  - \* ETO
  - \* Gamma Radiation / Ion Beam / E-Beam
  - \* H<sub>2</sub>O<sub>2</sub> plasma and Sterrad®
  - \* Autoclave resistance > 500X cycles
- \* **Resists 0.9% Saline soak at 60°C for 6 days.**
- \* **Resistance to X-ray / Gamma radiation up to 15 MRad of 6 MeV (peak) photons for > 24 hours.**

We also provide adhesive design and testing on customer specific parts.



**EPO-TEK**® brand products are available in a full line of electrical, thermal, optical and structural grade adhesives, with varying properties to meet specific customer requirements.

### Typical applications:

#### Electrically Conductive / Thermally Conductive Products

<b>H20S</b>	for LED die-attach
<b>H20E-PFC / E2101 / E4110-PFC</b>	for PZT connections
<b>H24</b>	for ultrasound generation
<b>H20E</b>	for hybrid pacemaker circuits
<b>H20E-LC</b>	for hearing aid microphones

#### Thermally Conductive / Electrically Insulating Products

<b>T7116-R3</b>	for MEMs hearing aid microphones
<b>T905-BN4</b>	for cooling of CT and MRI devices
<b>T7109</b>	for thermal sensors used in prevention of sleep apnea
<b>H67MP</b>	for die-attach of chip used on Insulin Pump PCB

#### Optical Products

<b>353ND / 377 / CF6-2</b>	for Fiber Optic Light Guides and Endoscopes
<b>301</b>	for X-ray Scintillator Crystal Array
<b>310M / 301-2FL</b>	for opto-coupler junction of photo detectors
<b>377H / OH108-1</b>	for IR Sensors
<b>301 / 301-2</b>	for fiber optic image bundles
<b>301-2FL</b>	for LED, IR-LED, and photodiode encapsulation

#### Structural Products

<b>OM118, GV101</b>	for filtration products
<b>OM100</b>	
<b>353ND</b>	for bonding diamonds onto scalpel blades and polishing wheels
<b>730</b>	for general bonding of plastics
<b>353ND</b>	for high speed motors in heavy duty saws for surgical uses

#### UV Cured Products

<b>OG147-7</b>	for IR emission and detection products
<b>OG116-31</b>	for resisting bleach in retinal imaging devices
<b>OG142</b>	for dental device abrasives



# USP Class VI Certified Bio-Compatible Available Products

**ISO-10993 Compliant**

*With over 40 years of specialty adhesive knowledge, Epoxy Technology has an extensive line of bio-compatible grade adhesives for medical applications.*

1.	EPO-TEK 301	Low Viscosity, RT cure
2.	EPO-TEK 301-2	RT cure, Long Pot Life
3.	EPO-TEK 301-2FL	RT cure, Long Pot Life, Resilient
4.	EPO-TEK 302-3M	RT cure with low Water Absorption, Low outgassing
5.	EPO-TEK 310M-1	Flexible, RT cure, Ultrasonic vibration resistant
6.	EPO-TEK 320	Black, RT cure, Opaque
7.	EPO-TEK 353ND	High Reliability, High Tg
8.	EPO-TEK 353ND-4	High Tg Version of EPO-TEK 353ND
9.	EPO-TEK 354	Medium Viscosity, 5 day Pot Life
10.	EPO-TEK 354-T	Thixotropic Version of 354
11.	EPO-TEK 375	High Temperature Epoxy
12.	EPO-TEK 377	Low Viscosity, 1:1 mix, High Tg, Low outgassing
13.	EPO-TEK 730	RT cure, Thixotropic, General Purpose, 1:1 mix
14.	EPO-TEK GV101	Low Viscosity, RT cure. Faster cure 301 type
15.	EPO-TEK H20E	Ag-filled ECA, For micro electronics
16.	EPO-TEK OD2002	High Tg, low modulus/good toughness
17.	EPO-TEK OE184	High Temperature Epoxy that reduces Dermatitis
18.	EPO-TEK OG116-31	UV Cure with Excellent Chemical Resistance, Thixo
19.	EPO-TEK OG205	5 minute Cure, Medium Viscosity, 2:1 mix
20.	EPO-TEK OG214	High Tg, Long Pot Life, Low outgassing
21.	EPO-TEK OG603	Ultra fast Curing UV Adhesive, Optically clear

[www.EPOTEK.com](http://www.EPOTEK.com)



**ISO 9001**

\*USP certifications available upon request

**For application assistance including custom formulation options, contact our Technical Service Group at [techserv@epotek.com](mailto:techserv@epotek.com).**

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**EPOXY**  
\* TECHNOLOGY

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