

Specialty Adhesives for Medical Electronics and Instrumentation including USP Class VI and/or ISO-10993 Compliance

USP CLASS VI BIO-COMPATIBLE PRODUCTS		
1.	EPO-TEK 301*	Low viscosity, room temp cure
2.	EPO-TEK 301-2*	Room temp cure, long pot life
3.	EPO-TEK 301-2FL	Room temp cure, long pot life, resilient
4.	EPO-TEK 302-3M	Room temp cure with low water absorption, low outgassing
5.	EPO-TEK 310M-1	Flexible, room temp cure, ultrasonic vibration resistant
6.	EPO-TEK 320	Black, room temp 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	Room temp cure, thixotropic, general purpose, 1:1 mix
14.	EPO-TEK H20E*	Ag-filled ECA for microelectronics
15.	EPO-TEK 0D2002*	High Tg, low modulus/good toughness
16.	EPO-TEK 0E184	High temp, high Tg epoxy with reduced potential for dermatitis
17.	EPO-TEK 0G116-31*	UV cure with excellent chemical resistance, thixotropic
18.	EPO-TEK 0G603	Ultra fast UV curing adhesive, optically clear

Epoxy Technology, Inc ® is a leading supplier to the medical device industry for over 45 years. Our extensive line of bio-compatible grade adhesives for medical applications include: sensors, instruments, hearing aids, dental equipment, pacemakers, endoscopes and catheter products.

***** 18 Certified USP Class VI Bio-Compatible Materials

* ISO-10993 testing of our USP Class VI adhesives, in process

- EPO-TEK 301	ISO-10993 now approved	M
- EPO-TEK 301-2	ISO-10993 now approved	V
- EPO-TEK 353ND	ISO-10993 now approved	
- EPO-TEK 353ND-T	ISO-10993 now approved	
- EPO-TEK 377	ISO-10993 now approved	
- EPO-TEK H20E	ISO-10993 now approved	∇

- EPO-TEK OD2002 ISO-10993 now approved

- EPO-TEK OG116-31 ISO-10993 now approved

Sterilizations

- * Excellent resistance to various sterilization techniques including:
 - ETO
 - Gamma Radiation / Ion Beam / E- Beam
 - H₂O₂ plasma and Sterrad®
 - Autoclave resistance > 500X cycles

Our adhesives also resist strong disinfectants such as Cidex and MetriCide and MetriCide

USP & ISO-10993 certifications available upon request

^{*}Also passed ISO-10993 testing



Medical application examples using EPO-TEK adhesives

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.

ISO 10993 Biocompatibility Tests Performed on EPO-TEK Specialty Medical Adhesives

- Acute Systemic Toxicity
- Hemocompatibility
- Implantation (14 day)

Cytotoxicity

• Irritation/Intracutaneous



Electrically Conductive / Thermally Conductive Products

H20E	for Pt/Ir electrodes & catheter products
H20E-PFC / E2101 / E4110-PFC	for PZT ultrasound connections
H24	for ultrasound acoustic matching
H20E / H20S	for hybrid pacemaker circuits
H20E-LC	for hearing aid microphones

Thermally Conductive / Electrically Insulating Products

TJ1183-LH	for MEMS hearing aid microphones
T905-BN4	for cooling of CT and MRI devices
T7109	for thermal sensors used in prevention of sleep apnea
H67-MP	for die attach of chip on PCB

Optical Products

353ND / 377 / CF6-2	for fiber optic bundles, light guides and endoscopes
301	for X-ray scintillator crystal array
310M-1 / 301-2FL	for opto-coupler junction of photo detectors in X-ray devices
377H	for IR sensors and thermometers
301 / 301-2	for fiber optic image bundles
301-2FL	for LED, IR-LED, and photodiode encapsulation, as well as potting

Structural Products / Molding Products

301	for molding medical implants and hybrid leaded packages
301 / 302-3M / OM118	for filtration membranes
353ND	for bonding diamonds onto scalpel blades and polishing wheels
353ND	for high speed motors in heavy duty saws for surgical uses
730	for general bonding of medical plastics and implants

UV Cured Products

OG116-31	for resisting bleach in retinal imaging devices	
OG142	for dental device abrasives	
OG603	for curing in seconds in multipurpose applications, coating of metal stents	

EPO-TEK® Medical Electronics and Instrumentation Adhesives

Specialty Adhesives for Medical Electronics and Instrumentation including USP Class VI Bio-Compatible and ISO-10993 Compliant Materials

Epoxy Technology, Inc * supplies a wide variety of epoxy adhesives for use in the medical industry. Although these materials have been tested for USP Class VI Bio-Compatibility and/or ISO-10993 compliance, this does not guarantee its use in a medical device. This certification is an excellent indicator that the adhesive will not cause issues during FDA approval, however, Epoxy Technology strongly recommends independent testing for the final assembled product.













Innovative Epoxy Adhesive Solutions for Over 45 Years

For ordering, please contact us at:

Epoxy Technology Inc. • 14 Fortune Drive • Billerica, MA 01821

Tel: 978-667-3805 • Fax: 978-663-9782



EPO-TEK is a registered trademark of Epoxy Technology, Inc. © Epoxy Technology Inc. 20114-15

The Information, Statements and Recommendations contained herein are based on information, data, reports or tests believed to be reliable. However, EpoxyTechnology, Inc. makes no warranty or guarantee of accuracy or completeness in connection therewith, nor, with respect to any EpoxyTechnology, Inc. products involved, any warranty or merchantability or fitness for a particular purpose or use.