

EPO-TEK® Specialty Medical Adhesives



EPOXY
* TECHNOLOGY

Innovative Epoxy Adhesive Solutions for Over 45 Years™

www.EPOTEK.com

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 OD2002	High Tg, low modulus/good toughness
16.	EPO-TEK OE145-3	Room temp cure, slightly thixotropic
17.	EPO-TEK OE184	High temp, high Tg epoxy with reduced potential for dermatitis
18.	EPO-TEK OG116-31	UV cure with excellent chemical resistance, thixotropic
19.	EPO-TEK OG603	Ultra fast UV curing adhesive, optically clear

* Has also passed ISO-10993 testing

USP & ISO-10993 certification available upon request

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Sterrad® and Cidex® is a registered trademark of Johnson & Johnson
MetriCide® is a registered trademark Medtrix Research

Epoxy Technology, Inc® is a leading supplier to the medical device industry for over 45 years. Our products are used in the most challenging medical applications needing optical transmission, high degrees of bond-strength and resistance to hostile environments such as high temperature, radiation and chemicals.

Epoxy Technology has an extensive line of bio-compatible grade adhesives for medical applications including: sensors, instruments, hearing aids, dental equipment, pacemakers, endoscopes and catheter products.

* 19 Certified USP Class VI Bio-Compatible Materials

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

– EPO-TEK 353ND *ISO-10993 now approved*

– EPO-TEK H20E *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®



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.



Electrically Conductive / Thermally Conductive Products

H20E	for Pt/Ir electrodes
H20S	for LED die attach
H20E-PFC / E2101 / E4110-PFC	for PZT connections
H24	for ultrasound generation
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 used on insulin pump PCB

Optical Products

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

Structural Products

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

UV Cured Products

OG147-7	for IR emission and detection products
OG116-31	for resisting bleach in retinal imaging devices
OG142	for dental device abrasives
OG603	for curing in seconds in multipurpose applications

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 review, however, Epoxy Technology strongly recommends independent testing for the final assembled product.



Please consult our *Application Experts* at Epoxy Technology to find the most suitable adhesives for specific technical challenges at: techserv@epotek.com.



EPOXY TECHNOLOGY

Innovative Epoxy Adhesive Solutions for Over 45 Years

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