

EPO-TEK® Biocompatible/ Medical Device Grade Products

Epoxy Technology (EPO-TEK®), a global leader in specialty adhesives since 1966, has a full line of Optical, Thermally Conductive (TCA), Electrically Conductive (ECA), UV and UV Hybrid Adhesives.

Now, many of our adhesives have undergone additional specialized **ISO 10993** testing to be classified as **biocompatible/medical grade** adhesives, which we call our EPO-TEK® **“MED”** line.



ISO 10993 Compliant Products - (“MED”)

Testing Passing ISO 10993-4, 5, 6, 10, 11

	Product	Description
EPOXIES	MED-301	Clear, low viscosity, room temp cure, used for potting and liquid injection molding
	MED-301-2	Clear, low viscosity, long pot life, room temp cure, used for potting
	MED-353ND	Medium viscosity, high Tg, high strength (worldwide standard for endoscopes)
	MED-353ND-T	Thixotropic paste, high temperature resistance & strength, non-flowing version of MED-353ND
	MED-377	Low viscosity, long pot life, high Tg, low outgassing, used with fiber optic bundles
	MED-H20E	Silver filled electrically conductive, high thermal conductivity for microelectronic packaging
	MED-OD2002	Viscous liquid, high Tg with low modulus and good toughness, autoclave resistant
UV	MED-OG116-31	Viscous liquid, thixotropic, high Tg, UV curing for optics and fiber optic assembly
	MED-OG198-54	Clear, low viscosity, UV shadow curable with high Tg for optics and photonic devices

ISO 10993-5 Compliant Products - (“MED”)

Testing Passing ISO 10993-5 Cytotoxicity

	Product	Description
EPOXIES	MED-301-2FL	More flexible version of MED-301-2, used for potting
	MED-302-3M	Clear, medium viscosity, low temperature cure, low outgassing with low water absorption
	MED-302-3M Black	Black-colored, medium viscosity, low temp cure adhesive and encapsulant
	MED-302-3M-R	REACH compliant version of MED-302-3M
	MED-320	Black, opaque and low fluorescence, thixotropic paste, room temp cure for bonding and sealing
	MED-323LP	Medium viscosity, high Tg, long pot life (1 day) version of MED-353ND
	MED-353ND Black	High Tg, high temperature, black-colored epoxy version of MED-353ND
	MED-354	Medium viscosity, long pot life (3 days) version of MED-353ND with high Tg
	MED-354-T	Thixotropic paste, non-flowing version of MED-354, long pot life (3 days) with high Tg
	MED-375	Medium viscosity, high Tg, 4 hour pot life with low outgassing
	MED-730-110	Medium viscosity, room temperature cure. electrically insulating structural epoxy
	MED-H20S	Low viscosity paste, electrically conductive with fine silver particles for microelectronics
	MED-HYB-353ND	UV hybrid curing epoxy, high temperature, very high strength and for photonics and fiber optics
	MED-T7110	Viscous liquid, thermally conductive compound with low viscosity for potting and encapsulation
MED-T905BN-3	Thermally conductive and electrically insulating epoxy for potting and heat sink applications	
UV	MED-OG198-55	Thixotropic paste, non-flowing version of MED-OG198-54, UV shadow curable for photonics

ISO 10993 Testing Information & Certification

All of our medical grade adhesives are ISO 10993 tested. ISO 10993 testing was written to establish a worldwide rigorous set of standards for the medical industry. There are many tests involved in this standard for predicting a reaction to an adhesive within biological media. All EPO-TEK® medical device grade adhesives (“MED”) are subjected to testing by an independent outside testing laboratory to determine ISO 10993 compliance before they are added to our special “MED” line of products. Two levels of testing may be performed on our products: ISO 10993-5 Cytotoxicity testing, or ISO 10993-4, 5, 6, 10, 11 testing.

Each “MED” product shipment will receive detailed documentation

- Certificate of Compliance for ISO 10993 testing from an independent outside laboratory
- Certificate of Analysis from EPO-TEK® Quality department for each specific lot



Common Applications Using EPO-TEK® Biocompatible Grade Epoxies



Imaging Systems

X-Ray Equipment (Scintillator Grids), CT Scan, MRI, Ultrasound (PZT Connections), OCT, Nuclear Medicine

MED-301
MED-301-2
MED-301-2FL
MED-353ND
MED-730-110
MED-H20E

MED-H20S
MED-OG198-54
MED-OG198-55
MED-OG116-31
MED-T7110
MED-T905BN-3



Diagnostics/Scientific Equipment

Patient Monitoring, Lab on a Chip, Sensors, Glucose Sensors, Point-of-Care-Instrumentation

MED-301
MED-353ND
MED-H20E
MED-H20S

MED-OG198-54
MED-OG198-55
MED-T7110



Surgical Tools

Catheters, Special Dental Equipment, Electro Surgical Tools, Fiber Optic Lasers, Cryoablation, Neurovascular

MED-301
MED-301-2FL
MED-353ND
MED-353ND Black
MED-353ND-T
MED-730-110

MED-H20E
MED-H20S
MED-OG116-31
MED-OG198-54
MED-OG198-55



Implantable/Non-Implantable Devices

ICD/CRM/Pacemakers, Ophthalmic & Neurostimulators, Insulin Pumps, Cochlear, Hearing Aids, Skeletal/Spinal/Ortho, LVAD

MED-301
MED-301-2
MED-302-3M
MED-302-3M Black
MED-302-3M-R
MED-323LP
MED-353ND-T

MED-730-110
MED-H20E
MED-H20S
MED-OG116-31
MED-OG198-54
MED-OG198-55



Endoscopes & Optical Systems

Fiber-optic Bundles, Light Guides/Camera, Attachment of Probes, Guide Wire Tips, Capsule Endoscopy

MED-301	MED-353ND	MED-730-110
MED-301-2	MED-353ND Black	MED-OD2002
MED-301-2FL	MED-HYB-353ND	MED-OG198-54
MED-320	MED-354	MED-OG198-55
MED-323LP	MED-377	



All EPO-TEK® Medical Device grade adhesives (“MED”) are ISO 10993 tested for biocompatibility



Contact our **Medical Device Adhesive Experts** for technical discussions and assistance in finding the best adhesive solution for your bonding challenges: med@epotek.com or +1 978-667-3805