



EPO-TEK® MED-H20E

Technical Data Sheet For Reference Only

Biocompatible/Electrically Conductive(ECA), Silver Epoxy

ISO 10993 Tested/Fully Compliant

Date:February 2018Rev:IINo. of Components:TwoMix Ratio by Weight:1 : 1Specific Gravity:Part A: 2.03Part B: 3.07Pot Life:2.5 DaysShelf Life- Bulk:One year at room temperature

Biocompatible Certified Cure: 150°C / 1.5 Hours

Alternative cures are possible, but no certification or testing has been done to support them. Contact techserv@epotek.com with questions.

NOTES:

• Container(s) should be kept closed when not in use.

• Filled systems should be stirred thoroughly before mixing and prior to use.

• Performance properties (rheology, conductivity, others) of the product may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.

Product Description: EPO-TEK® MED-H20E is a biocompatible, silver-filled epoxy with electrical and high thermal conductivity. It is a well characterized and relied upon ECA, with over 40 years of successful design use. It is versatile in curing techniques; from box oven, to IR, to hot plate, to convection ovens and is used for circuit connections. Some typical applications are: pacemaker hybrid circuits, X-rays, ultrasound, and hearing aids using MEM or hybrid technology.

Typical Properties: Cure condition: 150°C / 1.5 Hours Different batches, conditions & applications yield differing results. Data below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis

PHYSICAL PROPERTIES:			
* Color (before cure):		Part A: Bright s	hiny silver Part B: Slightly shiny silver
* Consistency:		Smooth thixotropic paste	
* Viscosity (23°C) @ 100 rpm:		2,200-3,200	
Thixotropic Index:		4.0	
* Glass Transition Temp:		≥ 80	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion	(CTE):		
_	elow Tg:	58	x 10 ⁻⁶ in/in°C
Ab	ove Tg:	278	x 10 ⁻⁶ in/in°C
Shore D Hardness:	Ū	70	
Lap Shear @ 23°C:		1,428	psi
Die Shear @ 23°C:		≥ 10	Kg 3,556 psi
Degradation Temp:		432	°Č
Weight Loss:			
@	200°C:	0.66	%
@	250°C:	1.10	%
@	2 300°C:	1.64	%
Suggested Operating Temperature:		< 375	°C (Intermittent)
Storage Modulus:		1,046,490	psi
* Particle Size:		≤ 45	microns