



# Optimax® UV Medical Device Adhesives

ISO 10993 biocompatible manufacturing medical device UV light curing adhesives

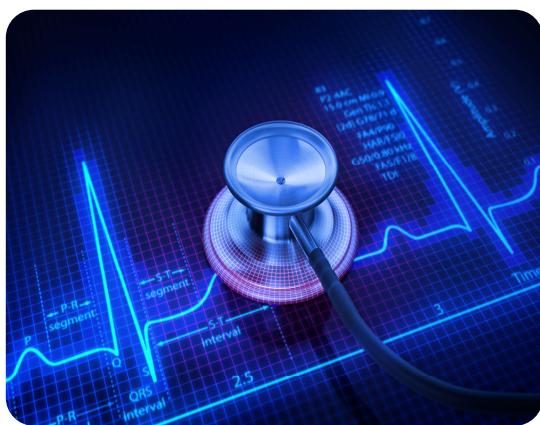
**Optimax®**  
Next Generation Adhesives

High performance manufacturing adhesives

# Optimax® UV Cured Medical Device Adhesives

Novachem offers a full line of critical application, ISO 10993-5/USP Class VI approved adhesive systems widely used in the development and production of medical devices. These one and two-component systems are designed to meet the most demanding requirements as bonding agents, moisture/chemical barriers and encapsulants.

Optimax® UV Medical adhesives cure in seconds under UV light, are solvent free, and form a clear, high strength bond to metal and medical plastics. They are ideal for bonding a wide variety of substrates, and fluorescing formulations facilitate in-line inspection for high-speed production.



## *Applications*

- *Needle Bonding*
  - *Reservoirs*
- *Breathing circuits*
  - *Medical tubing*
    - *Masks*
- *Catheter assemblies*
  - *Balloon bonding*
- *Y-connector assemblies*
  - *Lumen sealing*
- *Transducer assembly*
  - *Butterfly sets*
  - *Oxygenators*
- *Medical potting*
- *Medical electronics*
- *Catheter assembly*
- *Airway management systems*
- *Biomedical instruments*
  - *Hearing aids*

# THE RIGHT CHEMISTRY OF PEOPLE

Our products and innovative resin technology have made us an emerging leader in the industry for a wide range of applications, including aerospace, communications, electronics, industrial and medical uses throughout the world. Novachem provides more than standard line products. We provide variations of these products to suit your individual needs, and custom designed systems that reflect our willingness to adapt existing products and technologies and create new ones.

## **CUSTOM FORMULATING**

We are industry leaders in providing design engineering and technical support. We develop customised formulations to meet your specific application requirements. Our technical group will work closely with you to identify criteria for adhesive systems that will meet your production needs and final product specifications. Our expertise extends to epoxies, urethanes, and multi-functional light curing systems.

## INNOVATIVE SOLUTIONS

In a rapidly changing technological environment, resin systems are increasingly used wherever creative solutions and technically demanding applications are required. As high technology specialty chemical innovator, Novachem and its suppliers offer problem solving solutions to your problems with practical technical know-how, manufacturing capability, and field service. Our ability to listen, to react quickly with creative support and service, and to provide unique solutions that are cost-effective, worker safe, and reliable are our objectives.



## Optimax® Advanced, Next Generation Medical Device Adhesives



Optimax®	Description	Applications	Substrates	Viscosity cps	Shore
921-M-LV	Designed for rapid bonding of plastics and metals typically used in the manufacture of medical devices. Cures rapidly to form flexible, transparent bonds.	Needle/syringe Bonding, Reservoirs, Transducer Assembly, Breathing circuits, Medical tubing, Masks, Catheter assemblies, Balloon bonding, Y-connector assemblies, Lumen sealing, Butterfly sets. Multiple medical device manufacturing applications.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	70	D45
921-M	Designed for rapid bonding of plastics and metals typically used in the manufacture of medical devices. Cures rapidly to form flexible, transparent bonds.	Needle/syringe Bonding, Reservoirs, Transducer Assembly, Breathing circuits, Medical tubing, Masks, Catheter assemblies, Balloon bonding, Y-connector assemblies, Lumen sealing, Butterfly sets. Multiple medical device manufacturing applications.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	4000	D45
921-M-HV	Designed for rapid bonding of plastics and metals typically used in the manufacture of medical devices. Cures rapidly to form flexible, transparent bonds.	Needle/syringe Bonding, Reservoirs, Transducer Assembly, Breathing circuits, Medical tubing, Masks, Catheter assemblies, Balloon bonding, Y-connector assemblies, Lumen sealing, Butterfly sets. Multiple medical device manufacturing applications.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	22,500	D45
8967-M	Specialised UV cured adhesive based on Acrylic technology. 8967-M is a fast curing, UV curable structural adhesive designed for bonding multiple manufacturing substrates including glass, metal and plastics. 8967-M offers superior chemical, environmental and water-resistant properties.	Catheter Bonding, Reservoirs, Transducer Assembly, Balloon bonding, Y-connector assembly, Lumen sealing. Multiple medical device manufacturing applications.	PE, Stainless steel, Aluminium, Powder coated steel, Polycarbonate, PVC, Polyurethane, ABS, Stainless steel, Powder coated steel, Glass, SAN, TPU	125,000	D40
8002-LV	Suitable for a wide range of applications offering excellent depth of cure. Very fast cure time forming a rigid tack free surface.	Medical potting, encapsulation, casting, doming, sealing, electronic coating. Multi manufacturing applications.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	100	D85
8002-HV	Suitable for a wide range of applications offering excellent depth of cure. Very fast cure time forming a rigid tack free surface.	Medical potting, encapsulation, casting, doming, sealing, electronic coating. Multi manufacturing applications.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	3200	D85
8962	Specifically designed for Needle/Syringe high-speed bonding applications. Ideal for the assembly of disposable medical devices. This product fluoresces for in-line inspection and it is autoclave resistant.	Stainless Steel cannulas into hubs, syringes and lancets for needle assembly.	PC, PVC, PMMA, PU, ABS, Stainless steel, Powder coated steel, Aluminium, stainless steel, Glass, SAN, TPU	300	D45
8198	Flexible thermoplastic bonding adhesive providing very high strength bonds between rigid PVC and polycarbonate. Designed primarily for medical device assembly. Autoclave resistant. Offers gap fill capabilities.	Tube sets, Oxygenators, Reservoirs, Butterfly sets, Masks, Medical electronics, needle assemblies. Suitable for multiple medical device manufacturing applications.	PE, Stainless steel, Aluminium, Powder coated steel, Polycarbonate, PVC, Polyurethane, ABS, Stainless steel, Powder coated steel, Glass, SAN, TPU	5500	D65

### OPTIMAX® EPOXY MEDICAL DEVICE ADHESIVES

835-PE	Optimax® 835-PE is an ultra-clear, 2-component ISO-10993-5 medical grade epoxy designed for electronic, optical, medical and general potting applications and for the casting of small electrical components. The cured adhesive gives high impact, high clarity and excellent bond strength to a wide range of substrates. It can be used for bonding multi-manufacturing substrates. Certified for NASA Outgassing.	Working Time: RT: 24 hours 3 hours at 65 °C	Shore D: 86
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# **NovaChem**

**Innovative Adhesive Formulations**

*Innovative formulations based  
on proven chemistries.*



**MIL-SPEC**



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