



# Optimax® UV Medical Device Adhesives

ISO 10993 biocompatible manufacturing medical device UV light curing adhesives



High performance manufacturing adhesives

## 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
- Transducer Assembly
- 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
  - Medical electronics
- 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 formulators, 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.



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## OPTIMAX® UV CURED 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.	Multi	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.	Multi	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.	PP, PE, Stainless Steel, PC	300	D45
9925	Flexible thermoplastic bonding adhesive providing very high strength bonds between rigid PVC and polycarbonate. Designed primarily for medical device assembly. Autoclave resistant.	Medical tubing and multiple manufacturing applications.	Multi	300	D55
9915-CTH	Flexible, high adhesion to plastics and metal with reduced surface tack. This product fluoresces for in-line inspection.	Catheter assemblies, balloon bonding, Y-connector assembly, lumen sealing.	PC, PVC, PE, Stainless steel, Multi	14,500	A45
9912	Formulated for bonding thermoplastics and thermos-set plastics, not only to themselves but to a wide range of substrates. This product fluoresces for in-line inspection.	Face masks, Tube sets, Breathing circuits, Resuscitator bags, multiple manufacturing applications.	PC, PVC, PUR, PS, PETG, ABS	1250	D63
9970	Suitable for a wide range of applications including bonding hypodermic needles into hubs. Excellent adhesion to thermoplastics and steel. This product fluoresces for in-line inspection.	Hypodermic needles. Multiple manufacturing applications.	Engineered plastics, metals, stainless steel	600	D77
9950	Excellent adhesion to polycarbonates and rigid PVC, and a wide range of substrates. This product fluoresces for in-line inspection.	Tube sets, Oxygenators, Reservoirs, Butterfly sets, Masks, Medical electronics.	PC, PVC, PUR, PS, PETG, ABS	5000	D60
9031	Low viscosity grade with excellent adhesion to plasticised PVC, polyurethane, polycarbonate, polystyrene and metals. Impact and moisture resistant with flexible results.	Breathing circuits, Masks, Butterfly sets. Multiple manufacturing applications with plasticised substrates.	Highly plasticised PVC, PC, PU, PS, PETG	150	D65



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# **NovaChem**

***Innovative Adhesive Formulations***

*Innovative formulations based  
on proven chemistries.*



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