

Cartell Chemical Co., Ltd. proudly presents the MXBON® series of medical device adhesives, epitomizing the pinnacle of safety and efficacy with stringent ISO 10993-5 standard tested, ensuring high biocompatibility and safety across various medical environments.

These adhesives, specifically engineered for medical equipment, not only meet standard requirements but are also tailored to cater to specific needs such as high stability, corrosion resistance, and long-term durability, bringing unparalleled reliability to the production of medical devices, whether for surgical tools, diagnostic equipment, or any other precision medical apparatus.

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mxbon®



MEDICAL DEVICE ADHESIVES



Cyanoacrylate Adhesives

21401M *Low viscosity, resistant to 121°C heat, surface insensitive*

Transparent and colorless, rapid curing.
Suitable for adhesion of most materials.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.

21406M *Ultra-low viscosity, resistant to 121°C heat, surface insensitive*

Transparent and colorless, rapid curing.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Tested to ISO 10993 biological standards.

21416M *Medium viscosity, general purpose, seam-filling capabilities*

Can be used for gap bonding of 0.2mm.
Suitable for bonding rough or irregular surfaces.
Especially suitable for adhesion between plastic and rubber.
Tested to ISO 10993 biological standards.

21435M *Low viscosity, resistant to 107°C heat, elastic, impact resistant*

Excellent impact strength, peel strength, and high shear strength.
Especially suitable for adhesion between metal, rubber, and plastic.
Particularly effective for bonding insensitive surface materials and porous materials.
Tested to ISO 10993 biological standards.

21454M *Gel-like, resistant to 121°C heat, surface insensitive*

Transparent and colorless, rapid curing.
Suitable for vertical surface adhesion and filling of large gaps.
Tested to ISO 10993 biological standards.

21498M *Medium viscosity, heat cycle resistant*

Intermittent temperature resistance and heat cycle resistance up to 100°C.
Excellent moisture resistance and aging resistance.
Tested to ISO 10993 biological standards.

21520M *Low viscosity, ultra-fast cure, heat resistant up to 121°C*

Transparent and ultra-fast curing for improved medical device assembly efficiency.
Low-viscosity formulation with excellent wicking ability for tight-fitting parts and capillary gaps.
Excellent bonding strength on metals (especially stainless steel), plastics and elastomers.
Tested to ISO 10993 biological standards.

22401M *Low viscosity, resistant to 100°C high temperature, surface insensitive*

Transparent and colorless, rapid curing, low odor, low blooming.
Suitable for adhesion of most materials.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.

22403M *Medium viscosity, resistant to 100°C high temperature, surface insensitive*

Transparent and colorless, rapid curing, high strength, low odor, low blooming.
Suitable for the adhesion between metal, plastic, and rubber.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.

22408M *Low blooming, low odor, for difficult-to-bond materials*

Transparent formulation with low blooming and low odor for appearance-sensitive medical device assembly.
Ultra-low viscosity provides excellent wicking into close-fitting parts and capillary gaps.
Excellent bonding performance on plastics, elastomers, and difficult-to-bond substrates.
Tested to ISO 10993 biological standards.

22460M *Resistant to 100°C high temperature, penetration type*

Transparent and colorless, rapid curing, high strength.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Suitable for porous, absorbent, and low surface energy materials
Tested to ISO 10993 biological standards.

224902M *Low viscosity, resistant to 100°C high temperature, ultra-flexible*

Transparent and colorless, shore D 55.
High sealant properties, rapid curing.
Suitable for bonding high-flexibility medical devices.
Tested to ISO 10993 biological standards.

22507M *Medium to low viscosity, high strength, resistant to 100°C high temperature, low odor, low blooming*

Transparent and colorless, with good sealing properties.
Flexible, able to buffer stress deformation of substrates.
Particularly suitable for bonding TPE thermoplastic elastomer hoses to rigid plastics.
Medium-strength bonding achievable with inactive and low surface energy materials.
Tested to ISO 10993 biological standards.

22455M *Gel-like, resistant to 100°C high temperature, excellent gap filling ability, surface insensitive*

Transparent and colorless, rapid curing, high strength.
Suitable for vertical applications and filling large gaps.
Capable of gap-filling and bonding up to 0.25mm.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.



UV Cure Cyanoacrylate Adhesive

21441M *Low viscosity, light-curing cyanoacrylate adhesive, high transparency*

Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
High optical clarity for bonding transparent plastics and glass.
Ultra-low viscosity for capillary penetration and post-assembly bonding of precision medical components
Tested to ISO 10993 biological standards.

21443M *Medium to low viscosity, light-curing cyanoacrylate adhesive*

Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Easy to apply for crevice filling and bonding.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.

21446M *Medium viscosity, light-curing cyanoacrylate adhesive*

Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Applicable for bonding larger gaps of 0.15mm.
Especially for bonding to insensitive surfaces and low energy surfaces.
Tested to ISO 10993 biological standards.

22443M *Medium to low viscosity, light-curing cyanoacrylate adhesive, low odor, low blooming*

Transparent light yellow, instantly cures.
Double curing mechanism of light curing and moisture curing.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Tested to ISO 10993 biological standards.



Light Cure Adhesives

41131M *Low viscosity, fast curing by UV, for PVC plastic general purpose*

Provides flexible bonds when joining stress-sensitive plastics.
Low viscosity for the small tolerance components bonding.
Especially suitable for bonding metal to soft/ hard PVC such as disposable medical equipment, and it can also be used on glass and ceramic materials.
Tested to ISO 10993 biological standards.

41132M *Medium viscosity, fast curing by UV, for PVC plastic general purpose*

Provides flexible bonds when joining stress-sensitive plastics.
Thixotropic and mid-viscosity liquid, avoid overflow after applying and can be used for gaps filling.
Especially suitable for bonding metal to soft/ hard PVC such as disposable medical equipment, and it can also be used on glass and ceramic materials.
Tested to ISO 10993 biological standards.

41431M *Low viscosity, fast curing by UV, for stainless steel and plastic bonding*

Ideal for precision assemblies with tight tolerances.
Provides excellent adhesion on a wide range of substrates including metal, plastic, and glass.
Specifically formulated for stainless steel and plastic bonding, especially effective for applications involving small bonding areas.
Tested to ISO 10993 biological standards.



Primer

02770M *Medical Grade Primer/Surface Modifier for Cyanoacrylate Adhesive*

Significantly increases the adhesive strength of difficult-to-bond materials.
Suitable for insensitive surface materials and low surface energy materials.
Applicable to porous materials, water-absorbent materials, acidic surface materials.
Tested to ISO 10993 biological standards.

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