

Founded in 1994, Cartell Chemical Co., Ltd is one of the leading cyanoacrylate adhesives manufacturers, and its products marketed under brand name MXBON. With Strong financial support, Cartell is able to build the world's most advanced production facility and enable its R&D to collaborate with world's top Research and Development team to develop innovative adhesive technologies. In order to provide the best bonding solution, Cartell continues to invest on the machines and equipments needed for the research, development as well as inspection and testing.

# MXBON®

Cartell chemical is an ISO9001 and ISO14001 accredited company. Our products are certified with international standards such as ISO10993, NSF, RoHS and REACH. As a specialty chemical provider for bonding and sealing, Cartell offers low cost but reliable solutions for industrial users from design phase, mass production to MRO. Our products are widely used on general assembling, electronic, electric, medical device, transportation, vessel, automotive, etc.

## Structural Adhesives

Our sales and technician team not only assist industrial users with the selection of adhesives from product design stage to mass production but also help them to solve bonding or sealing problems. Our innovation and profession are the key to wide customer recognition and brand/product popularity.



Adhesives Expert

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**31324** *Mid-high viscosity, single compound, anaerobic type, bigger gap bonding*

- Durable, impact-resistant, high-strength and chemical-resistance properties.
- With high strength and fast fixture time.
- For large gap (0.5~1mm).
- It is suitable for bonding most metals and ferrites, and can also be used on some plastic materials.



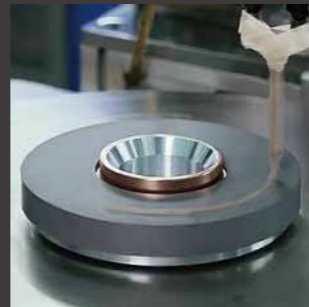
**31326** *Mid-high viscosity, single compound, anaerobic type, fast curing on metals*

- Durable, impact-resistant, high-strength and chemical-resistance properties.
- With high strength and fast fixture time.
- For gaps smaller than 0.25mm. Curing time within 2 minutes.
- Good adhesion on different types of ferrites, such as permanent magnets, transformer cores and other applications.



**31330** *High viscosity, single compound, especially for metal mechanical stress*

- Especially for the flat metal surface bonding usage. Using it with activator is required.
- It can fill the gaps, and provide good vibration and impact resistance after fully cured.
- For bonding different metal substrates, including metal, ferrite and other motor components, it is a best metal bonding solution with the highest strength requirements.



**31332** *Gel type, single compound, for high temperature usage*

- Low fluidity, for vertical surface, it can fill gaps. After curing, it provides excellent vibration and impact resistance.
- It can be cured by heating it above 130°C
- High temperature resistance of 205°C, It is suitable for bonding motor components such as metals or ferrites that come with high working temperatures.



**MXBON**<sup>®</sup>



MXBON Acrylic Structural Adhesives were formulated to provide excellent mechanical resistance, including high shear strength, peel resistance and impact resistance, especially for metal bonding applications. MXBON Acrylic Structural Adhesives are single compound with two-steps operation. Pre-applied activator and no need to mix or allocate a specific ratio. Quick fixture time for assembling parts at room temperature, and it provides a highly efficient, reliable and weather-resistant solution.

**Structural Adhesives**

Item No.	Appearance	Activator	Suitable Bonding Substrates			Viscosity mPa.s(cP)	Gap Performance Setting time/ fully cured	Shear Strength N/mm2	Working Temp. °C	Other Curing Factor
			Plastic	Glass	Metal					
31324	Amber liquid	037387	◆	◆	◆◆◆	10,000~24,000	0.5~1mm 5min./24hrs	15~21	-55~150	
31326	Amber liquid	017649		◆	◆◆◆	11,000~25,000	0.25mm 2min./24hrs	> 15.2	-55~125	
31330	Opaque White to light yellow liquid	037387		◆	◆◆◆	45,000~90,000	0.5mm 5min./24hrs	15~30	-55~125	
31332	Opaque light yellow to Amber gel	037387		◆	◆◆◆	75,000~130,000	0.5mm 5min./24hrs	> 11	-55~200	Heat cure: 20min. @130°C Heat cure: 10min. @150°C



**Activators**

Item No.	Usage	Property	Main Component	On-Part Life	Dry Time
017649	For anaerobic adhesives, anaerobic structural adhesives	Anaerobic Adhesive Activator is suitable for all anaerobic adhesives and shortening the fixture time. We can apply it first or spray it later. Typical applications: inactive or plating metal surfaces.	Acetone Heptane	30 days	< 60
037387	Acrylic structural adhesives	Structural Adhesive Activator is used in the hardening process of acrylic structural adhesive in order to increasing the curing speed. Apply it on one-side and apply acrylic structural adhesives on the other side, then bond and press them together. For larger gaps (>0.4 mm) or fast curing requirements, it can be applied on both sides.	n-Heptane 2-Pranolol	2 hrs	< 120