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Cartell Chemical Co., Ltd., established in 1994, is a world-class manufacturer of industrial adhesives, sealants, and specialty chemical products. Its flagship brand MXBON® delivers high-performance, cost-effective, and reliable solutions for design, manufacturing, assembly, and maintenance across the industrial sector. MXBON® products are widely used in a broad range of industries, including traditional manufacturing, electronics, electrical engineering, medical equipment, railway transportation, shipbuilding, sports equipment, hand tools, pneumatic tools, 3C electronic products, and the automotive industry.

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Adhesives Expert

MXBON®



圓形配件固定劑  
RETAINING COMPOUND



**12603 耐油汙 壓配組裝***Oil tolerant, press-fit*

於 10 分鐘內初步固化。

專為高強度與耐油性要求的壓配式組裝所設計。適用於齒輪、軸套、襯套等重載或振動條件下的結構部件固定。

Achieves initial curing within 10 minutes. Optimized for tight press-fit assemblies where high strength and oil tolerance are essential. Recommended for securing bushings, gears, sleeves, and structural metal parts subjected to heavy loads or vibrations.

**12620 高強度 耐高溫 不垂流 高潤滑性***High strength, heat resistance, non-dripping, high lubricity*

於 30 分鐘內初步固化。

耐高溫至 230°C，高潤滑性方便組裝，適用於高轉速軸承與密閉裝置。適用於滑配式結合之皮帶輪、軸承、傳動軸等高溫場合。

Achieves initial curing within 30 minutes. Withstands temperatures up to 230°C, and its high lubricity facilitates smooth assembly. Ideal for bonding high-speed shafts, pulleys, and bearings in high-temperature environments or enclosed housings.

**12648 高強度 適合非活性金屬***High strength, passive metal applicable*

於 5 分鐘內達到固定強度。

適用於需高扭矩保持力、表面處理簡便的壓配組裝。對不鏽鋼與高精度配合件有良好黏著表現。

Achieves reliable fixture strength within 5 minutes. Suitable for assemblies requiring high torque retention with minimal surface preparation. Works reliably on stainless steel and precision cylindrical fittings with narrow tolerances.

MXBON®圓形配件固定劑主要應用於各種金屬圓柱型零組件的組裝。如：軸承、軸套、插銷、鍵槽、齒條、輪轂及滑輪等圓形配件的組裝固定，取代傳統的壓配、插銷、鍵槽等費時費力高成本的工作方式，改為簡易的輕壓配或滑配的方式。MXBON 圓形配件固定劑固定的工作因接觸面100%貼合可達到非常高的抗扭及剪切強度，不因部品轉動、震動而鬆脫，具備強大的轉移荷載能力，能提高圓柱形無螺紋配件裝配作業，減低零件加工精密度的要求，取代扣環、扣片、扣夾等零件，同時減少因壓配組裝所造成的壓力，避免零件因此而損壞，進而增加零件使用壽命，降低許多加工成本。組裝後的產品能承受較嚴苛的環境條件，可以抵抗潤滑油、機油、汽油、弱酸、弱鹼及大部分化學品的侵蝕並達到密封防鏽的功能。

MXBON Retaining Compound is primarily used for the assembly of various metal cylindrical components, such as bearings, bushings, pins, keyways, racks, hubs, and pulleys. It supersedes traditional, time-consuming, and high-cost methods like press-fitting, pin insertion, and keyways, transforming them into simpler and more efficient light press-fit or slip-fit methods. MXBON Retaining Compound, through its 100% surface contact, achieves high torsional and shear strength. It ensures that components do not loosen due to rotation or vibration and provides substantial load transfer capacity. It streamlines the assembly operations of cylindrical components without threads, diminishes the precision requirements for component machining, and can replace parts such as circlips, retaining plates, and clamps. Simultaneously, it minimizes the stress caused by press-fitting assembly, preventing component damage, and thereby increasing component lifespan, substantially reducing processing costs. The assembled product can withstand harsh environmental conditions, resist the erosion of lubricating oil, machine oil, gasoline, weak acids, weak bases, and most chemical substances, while providing sealing and rust prevention capabilities.

**12620 高強度 耐高溫 不垂流 高潤滑性***High strength, heat resistance, non-dripping, high lubricity*

於 30 分鐘內初步固化。

耐高溫至 230°C，高潤滑性方便組裝，適用於高轉速軸承與密閉裝置。適用於滑配式結合之皮帶輪、軸承、傳動軸等高溫場合。

Achieves initial curing within 30 minutes. Withstands temperatures up to 230°C, and its high lubricity facilitates smooth assembly. Ideal for bonding high-speed shafts, pulleys, and bearings in high-temperature environments or enclosed housings.

**12680 泛用型***General purpose*

於 10 分鐘內達到固定強度。

中等黏度，具備優異抗振性能，適用於滑配裝配。

適合用於修復或預防性保養之皮帶輪、齒輪與軸配件。

Achieves reliable fixture strength within 10 minutes. Offers a balance of medium viscosity and excellent vibration resistance for slip-fit joints.

Ideal for retrofit repairs or preventive maintenance of pulleys, gears, and shaft-mounted parts.

**使用技巧與重點**

- 1) 圓形配件固定劑在清潔無油汙的表面上效果最好。配合使用 MXBON 的清潔劑和活化劑能達到清潔工作物表面及加速固化的功能。
- 2) 對於不活化金屬表面(如不鏽鋼)應使用促進劑以確保完全固化。
- 3) 除非經過測試，否則不要在塑膠零組件上使用 MXBON 圓形配件固定劑。許多熱塑性塑膠再接觸到液態型厭氧性接著劑時會發生龜裂的現象。

**TIPS of USING**

- 1) Clean Surfaces: MXBON Retaining Compound performs best on clean, oil-free surfaces. Use MXBON cleaner and activator for optimal surface preparation and accelerated curing.
- 2) Passive Substrates: For less reactive metals like stainless steel, an activator is recommended to ensure complete curing.
- 3) Plastic Components: Do not use MXBON Retaining Compound on plastic parts unless specifically tested, as many thermoplastics can crack when exposed to liquid anaerobic adhesives.

**產品技術資料 Technical Information**

型號 Item No.	外觀顏色 Appearance	螢光性 Fluorescence	黏度 Viscosity mPa.s (cP)	填補間隙 Gap filling mm	剪切強度 Shear Strength N/mm² (Psi)	工作溫度 Working Temp. °C	固化時間 Fixture Time	固化時間 全固 Fully Cured	認證 NSF
12603	綠色 Green	◆	100–150	0.10	≥23 (≥3,263)	-54°C–150°C	10min	24hrs	◆
12620	綠色 Green		5,000–12,000 觸變性 Thixotropic	0.40	≥24 (≥3,480)	-54°C–230°C	30min	24hrs	◆
12638	綠色 Green	◆	2,000–3,000	0.25	≥25 (≥3,625)	-54°C–180°C	5min	24hrs	◆
12639	綠色 Green	◆	2,000–3,000	0.50	≥25 (≥3,625)	-54°C–180°C	5min	24hrs	
12648	綠色 Green	◆	400–600	0.15	≥25 (≥3,625)	-54°C–180°C	5min	24hrs	◆
12680	綠色 Green	◆	750–1,750	0.25	≥19 (≥2,799)	-54°C–180°C	10min	24hrs	◆

\*此列表之內容與數據皆以其產品技術資料(TDS)為準。在決定選用接著劑之前，建議先進行實際測試以確保產品性能。

\*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

**促進劑產品技術資料 Activator Technical Information**

型號 Item No.	適用 Usage	特性 Property	主成分 Main Component	線上壽命 On-Part Life	乾燥時間 Dry Time	認證 NSF
017090	厭氧膠 厭氧型結構膠 For anaerobic adhesives, anaerobic structural adhesives	本款產品適用搭配於 MXBON 厭氧膠及密封膠。 低氣味、不閃燃、無毒配方，可縮短固化時間。 Formulated for compatibility with MXBON anaerobic adhesives and sealants. Low odor, non-flammable, and non-toxic formulation. Significantly reduces curing time.	甲基丙烯酸酯 Polyethylene Glycol Dimethacrylate	1 hour	不會乾燥 Will not dry	
017649	厭氧膠 厭氧型結構膠 For anaerobic adhesives, anaerobic structural adhesives	適用於所有厭氧膠的加速固化，縮短固定時間，增加填縫能力。可先塗或後噴。典型應用：非活性金屬表面、金屬電鍍表面。 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.	丙酮 Acetone 庚烷 Heptane	14 days	≤100 sec	◆

**12639 高強度 大間隙填補 鈍化材質適用***High strength, large gap filling,  
suitable for passive metal*

適用於活性或鈍性金屬表面，快速固化。

適用於滑動配合、尺寸略鬆或磨耗之零件修復。  
Fast-curing formulation suitable for both active and passive metal surfaces.  
Effective on worn or slightly oversized parts such as pulleys, gears, or collars.