

北回化學股份有限公司為工業用接著劑、密封劑與特殊化學用品的專業製造商，為工業界提供了設計、製造、組裝與維修上最低成本、最優質可靠的解決方案。產品應用廣泛地橫跨傳統產業、電子產業、電機產業、醫療器材產業、鐵路運輸產業、船舶產業、運動器材產業、手工具與氣動工具、3C電子產品、汽機車等產業。

Cartell Chemical Co., Ltd. was established in 1994, and it is a world-class professional manufacturer of industrial adhesives, sealants, and specialized chemical products. The brand "MXBON" created by the company provides the industrial sector with top-quality and reliable low-cost solutions for design, manufacturing, assembly, and maintenance. The applications of MXBON products span a wide range of industries, including traditional industries, electronics, electrical engineering, medical equipment, railway transportation, shipbuilding, sports equipment, hand tools, pneumatic tools, 3C electronic products, and the automotive industry.

北回化學股份有限公司  
Cartell Chemical Co., Ltd.  
嘉義縣民雄工業區成功街18號  
No.18 Cheng Gong Street,  
Min-Shyong Industrial Park,  
Chia-Yi Hsien, (621) Taiwan.  
Tel: +886-5-2203715  
Fax: +886-5-2203720  
E-mail: sales@mxbon.com

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# mxbon®

# Adhesives Expert



## 螺絲固定劑

### THREAD LOCKERS



## 11222 低強度 具觸變性 Low strength, thixotropic

可用於M6或更小的螺絲固定與密封  
為易拆卸型的螺絲固定劑

Lock and seal for M6 or smaller screws.  
Removable.

## 11242 中強度 泛用型 具觸變性 Medium strength, general-purpose, thixotropic

可用於M20以下螺絲的固定與密封  
適用於電鍍的不活性表面的材質  
為可拆卸型的螺絲固定劑

Lock & seal for M20 or smaller screws.  
Good for electroplating surface.  
Removable.

## 11243 中強度 容油性 具觸變性 Medium strength, oil tolerance, thixotropic

可用於M20以下螺絲的固定與密封  
適用於輕油脂髒污表面，不鏽鋼及電鍍  
等不活性表面材質  
為可拆卸型的螺絲固定劑

Lock & seal for M20 or smaller screws.  
Suitable for lightly greased surfaces and  
passive substrates such as, stainless steel &  
electroplating surface.  
Removable.

## 11248 中強度 蠟狀固體 Medium strength, wax consistency

可用於M20以下螺絲的固定與密封  
蠟狀半固體方便攜帶使用，且適用於輕  
油脂髒污表面，不鏽鋼及電鍍等不活性  
表面材質  
為可拆卸型的螺絲固定劑

Lock & seal for M20 or smaller screws.  
Semi solid stick form is incredibly convenient  
and portable, also suitable for lightly greased  
surfaces and passive substrates such as,  
stainless steel & electroplating surface.  
Removable.

## 11262 高強度 高潤滑性 具觸變性 High strength, high lubricity, thixotropic

可用於M20以下螺絲的永久性固定與密封  
在嚴苛的環境下，仍具有優良的防鏽及耐腐蝕特性

Lock & seal for M20 or smaller screws for  
permanent.  
Excellent rust and corrosion resistance in  
harsh environments.

## 11263 高強度 耐化學性 快速固化 容油性 High strength, chemical resistant, fast curing, oil tolerance

可用於M25以下螺絲的固定與密封  
適用於輕微油脂髒污表面、不鏽鋼及電鍍  
等不活性表面的材質

Lock & seal for M25 or smaller screws.  
Suitable for lightly greased surfaces and  
passive substrates such as, stainless steel  
& electroplating surface.

## 11271 高強度 低黏度 泛用型 High strength, low viscosity, general-purpose

可用於M25以下螺絲的永久性固定與密封

Lock & seal for M25 or smaller screws for permanent.

## 11272 高強度 具觸變性 耐高溫 High strength, thixotropic, heat resistance

耐高溫達230°C  
可用於M36以下螺絲的永久性固定與密封

Heat resistance up to 230°C.  
Lock & seal for M36 or smaller screws for permanent.

## 11277 高強度 高黏度 High strength, high viscosity

耐化學性特優，可防止螺絲生鏽及腐蝕  
可用於M36以下螺絲的永久性固定與密封

Excellent chemical resistance, prevents rusting and  
corrosion of screws.  
Lock & seal for M36 or smaller screws for permanent.

## 11290 中高強度 滲透型 Medium to high strength, penetration type

用於已裝配好的M2~M12螺絲固定與密封，也可用來  
密封焊道縫及鑄件的微孔

可防止螺絲生鏽及腐蝕  
Lock & seal for M2~M12 screws after assembly,  
effective for sealing micro-pores on weld seams and  
castings.  
Prevents rusting and corrosion of screws.

## 112701 高強度 鈍化表面專用 High strength, for passivated materials

抗熱性及抗油性極佳  
鈍化材質專用膠

可用於M20以下螺絲的固定與密封  
Excellent heat and oil resistance.  
Specialized adhesive for Passivated Materials.  
Lock & seal for M20 or smaller screws.

MXBON螺絲固定劑，是單液自硬化型固定劑，能完全填充螺紋之間的空隙，可以取代彈簧墊圈、雙螺母，及其他機械固定裝置，簡化產品的設計，並可以防止螺絲扣件腐蝕、卡死、鬆動、滲漏、減少維修時間，永久的確保螺絲裝配的安全，提高機械的穩固性。

MXBON Thread Lockers are single-component, self-curing adhesives that completely fill the gaps between threads. They can replace spring washers, double nuts, and other mechanical fastening devices, thereby simplifying the product design. They also prevent screw fasteners from corroding, seizing, loosening, and leaking, consequently reducing maintenance time. They provide a permanent guarantee of screw assembly safety, enhancing the sturdiness of machinery.



### 使用技巧與重點 TIPS of USING

可用加熱的方法或用較大的扭力來拆卸高強度螺絲固定劑所固定螺絲。使用前先用抹布或鋼刷清潔接著部分；若有油汙則必須先將油漬去除。若是盲孔，應施膠於孔內較為妥當。接合長度若較長，則螺絲及孔內均應施膠。搭配MXBON促進劑使用，可加速固化。

Removal: High-strength Thread Lockers can be disassembled by using either heat application or increased torque. Cleaning: Prior to the application, ensure the bonding area is clean. Use a cloth or steel brush to remove any debris. If oil residue is present, it must be removed. Blind Holes: For blind holes, it is more appropriate to apply the adhesive within the hole. Long Joints: In the case of long joints, apply adhesive to both the screw and the interior of the hole. Accelerating Cure: The curing process can be expedited by using the MXBON activator.

### 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)	鬆脫扭矩 Breakaway N-m (lb-in)	摩擦扭矩 Prevail N-m (lb-in)	工作溫度 Working Temp. °C	固化時間 初固 Fixture Time	固化時間 全固 Fully Cured	認證 NSF
11222	紫色 Purple	◆	900-1,500 觸變性 Thixotropic	6 (52.8)	4 (35)	-54°C-150°C	15min	24hrs	◆
11242	藍色 Blue	◆	900-1,400 觸變性 Thixotropic	8-19 (70-167)	3-7 (26-62)	-54°C-150°C	5min	24hrs	◆
11243	藍色 Blue	◆	1,300-3,000 觸變性 Thixotropic	26 (229)	5 (44)	-54°C-180°C	10min	24hrs	◆
11248	藍色 Blue	◆	蠟狀 wax consistency	23 (204)	5 (43)	-54°C-150°C	5min	24hrs	◆
11262	紅色 Red	◆	1,200-2,400 觸變性 Thixotropic	26 (229)	32 (282)	-54°C-150°C	10min	24hrs	◆
11263	紅色 Red	◆	400-600	34 (299)	34 (299)	-54°C-180°C	10min	24hrs	◆
11271	紅色 Red	◆	400-600	17-40 (150-352)	23-40 (202-352)	-54°C-150°C	10min	24hrs	◆
11272	紅色 Red	◆	4,000-15,000 觸變性 Thixotropic	34 (299)	36 (317)	-54°C-230°C	30min	24hrs	◆
11277	紅色 Red	◆	6,000-8,000	32 (282)	32 (282)	-54°C-150°C	30min	24hrs	◆
11290	綠色 Green	◆	20-55	10 (88)	29 (255)	-54°C-150°C	20min	24hrs	◆
112701	綠色 Green	◆	500-900	26-50 (229-440)	≥ 15 (≥ 132)	-54°C-150°C	10min	24hrs	◆

\*此列表之內容與數據皆以其產品技術資料表(TDS)為準，在決定選用前請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
017649	厭氧膠 厭氧型結構膠 For anaerobic adhesives, anaerobic structural adhesives	厭氧膠促進劑適用於所有厭氧的加速固化，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	30 days	< 60 sec.	◆

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## 圓形配件固定劑 RETAINING COMPOUND



## 12603 高強度 壓配組裝

*High strength, press-fit*

在10分鐘內可達初步固化  
 容油性, 抗震動, 耐磨損及金屬配件的腐蝕  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Achieves initial curing within 10 minutes.  
 Oil tolerance, vibration resistance, wear and corrosion resistance for metal parts.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.

## 12609 中高強度 壓配組裝

*Medium to high strength, press-fit*

在10分鐘內可達初步固化  
 可黏著不同材質的金屬  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Achieves Initial Curing Within 10 Minutes.  
 Use for variety metals.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.

## 12620 高強度 耐高溫 不垂流 滑配組裝

*High strength, heat resistance, non-dripping, slip-fit*

耐高溫可達230°C  
 高潤滑性, 能防止金屬磨損及腐蝕  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Heat resistance Up to 230°C.  
 High lubricity, prevents metal wear and corrosion.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.

## 12638 高強度 滑配組裝

*High strength, slip-fit*

在5分鐘內可達初步固化  
 耐衝擊, 抗化學性佳  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Achieves initial curing within 5 minutes.  
 Impact resistance, excellent chemical resistance.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.

## 12648 高強度 壓配組裝

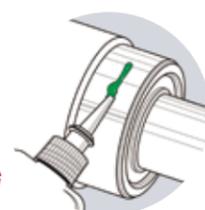
*High strength, press-fit*

在5分鐘內可達初步固化  
 可用於鈍化材質的工件, 如不鏽鋼  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Achieves initial curing within 5 Minutes.  
 Applicable to workpieces of passivated materials, such as stainless steel.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.

## 12680 高強度 滑配組裝

*High strength, Slip-fit*

在10分鐘內可達初步固化  
 適用於固定套管、皮帶輪、輪齒、軸配合件及修復加工不良的零件  
 Achieves initial curing within 10 minutes.  
 Suitable for fixing sleeves, pulleys, gears, shaft fittings, and repairing defective components.



### 使用技巧與重點 TIPS of USING

- 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。

- 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.

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、齒輪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.



### 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)	剪切強度 Shear Strength N/mm <sup>2</sup> (Psi)	工作溫度 Working Temp. °C	固化時間 初固 Fixture Time	固化時間 全固 Fully Cured	認證 NSF
12603	綠色 Green	◆	100-150	≥ 23 (≥ 3,263)	-54°C-150°C	10min	24hrs	◆
12609	綠色 Green	◆	100-150	≥ 16 (≥ 2,291)	-54°C-150°C	10min	24hrs	◆
12620	綠色 Green	◆	5,000-12,000 觸變性 Thixotropic	≥ 24 (≥ 3,480)	-54°C-230°C	30min	24hrs	◆
12638	綠色 Green	◆	2,000-3,000	≥ 25 (≥ 3,625)	-54°C-180°C	5min	24hrs	◆
12648	綠色 Green	◆	400-600	≥ 25 (≥ 3,625)	-54°C-180°C	5min	24hrs	◆
12680	綠色 Green	◆	750-1,750	≥ 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表(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
017649	厭氧膠 厭氧型結構膠 For anaerobic adhesives, anaerobic structural adhesives	本款厭氧膠專用促進劑適用於所有厭氧的加速固化, 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	30 days	< 60 sec.	◆