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窗利来

中空玻璃胶条的领导者  
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# 金宇·窗利来

JINYU·TRUSPACER



## 简介

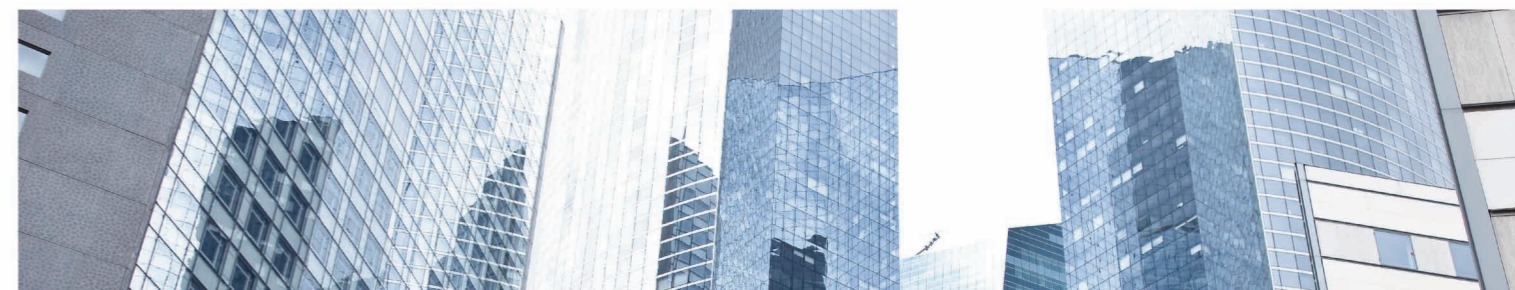
### Introduction

盘锦窗利来中空玻璃材料有限公司本着优质、诚信、务实、创新的企业宗旨，专业生产CLL<sup>®</sup>槽铝式中空玻璃胶条、窗利来<sup>®</sup>中空玻璃暖边胶条、金宇<sup>®</sup>复合胶条、镶嵌胶条、防火玻璃胶条以及中空玻璃设备等产品。公司注重产品的技术创新，拥有多项实用新型专利，产品先后通过了美国IGCC认证和欧洲认证，上海市国家建材检测中心，秦皇岛国家玻璃质检中心等部门检测，以及ISO9001质量体系认证。公司历经20多年发展，金宇<sup>®</sup>、窗利来<sup>®</sup>、CLL<sup>®</sup>等品牌销售遍及国内外。我公司的全体员工将以高质量的产品，优质专业的服务和各界朋友互利互惠，共同发展。

PANJIN CLL INSULATING GLASS MATERIAL CO.LTD. Adhering to the principle of high quality, integrity, pragmatic and innovative, the company mainly produces CLL<sup>®</sup> aluminum-frame type insulating glass spacer, TRUSPACER<sup>®</sup> compound sealing spacer for insulating glass, Jinyu<sup>®</sup> spacer, mosaic spacer, fireroof glass strip, insulating glass equipment, etc. The company focuses on the technological innovation for products and possesses a number of utility model patents. Our products have successively passed the certifications and tests from US IGCC and the EU Certification, Shanghai National Building Materials Test Center, Qinhuangdao National Glass Inspection Center, and the ISO9001 Quality System Certification. More than 20 years of development, the company has sold our products with brands such as Jinyu, TRUSPACER<sup>®</sup>, CLL<sup>®</sup> and so on at home and abroad. All staff of our company would like to cooperate sincerely with all business friends, mutually benefit and develop together relying on our high-quality products and professional services!



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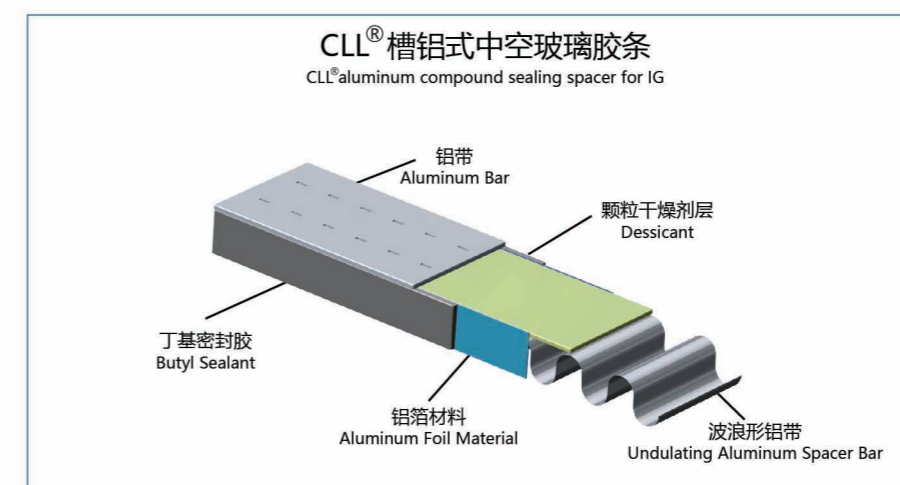
## CLL<sup>®</sup>槽铝式中空玻璃胶条

CLL<sup>®</sup>aluminum compound sealing spacer for IG

### 简介

CLL<sup>®</sup>槽铝式中空玻璃胶条，在窗利来胶条基础上大胆创新，铝带与胶条的完美结合，使得胶条表面更美观，支撑力更强，独一无二的专利设计，世界领先的优秀品质，让CLL<sup>®</sup>胶条成为中空玻璃制作的不二选择。

CLL<sup>®</sup>aluminum compound sealing spacer for IG is a kind of bold innovation based on TRUSPACER<sup>®</sup> spacer, perfect combination of aluminum strip and spacer bringing more beautiful spacer and stronger support, together with unique patent design and excellent quality topping the world, making CLL<sup>®</sup> spacer the ideal choice for making insulating glass.



图片仅供参考，请以实物为准！  
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### 特点

- 更美观，铝带做表面，外观达到槽铝式中空玻璃的标准，档次有了大幅提升。
- 耐老化性能显著提高。胶条表面的铝带有效抵御了紫外线照射，使胶条耐老化性能显著提高。
- 操作简单，生产效率更高。只采用CLL<sup>®</sup>胶条这一种产品就能代替传统槽铝式中空玻璃繁琐的加工程序，生产效率更高。

### Product Features

- The glass looks more beautiful with the aluminum strip on surface, and the appearance meeting the requirements for aluminum-frame type insulating glass, significantly improving its level.
- The ageing-resistant performance remarkably enhances. The aluminum strip on surface effectively resists the ultraviolet irradiation, reinforcing the ageing-resistant performance of the spacer to a large extent.
- Simple operation makes higher production efficiency. Adopting CLL<sup>®</sup> spacer can take the place of complex processing procedure of traditional aluminum-frame type insulating glass.





## 窗利来® 牌新一代中空玻璃胶条 Truspacer® new-generation compound sealing spacer for insulated glass

### 简介

窗利来®中空玻璃胶条是我公司经过近5年的自主研发，在原有金宇®胶条基础上做了大量改进和创新，保留了原有的优点，克服了传统胶条的不足，该产品生产技术、质量填补了国内空白，处于国内领先地位，达到了国际同类产品水平，比传统胶条的质量有了大幅提高，是中空玻璃制作方式的一次革命性进步。

### Introduction

After nearly five years of independent research and development, the Truspacer® compound sealing spacer product has achieved considerable improvement based on the original sealing spacer brand known as Jinyu®. We have kept the advantages of the traditional sealing spacer but have also overcome its disadvantages. Thus the manufacturing technique for the new product has filled a void in China's construction industry. The product is a quality leader in the domestic market, having attained a reputation equal to the most advanced products internationally. As an innovative product is transcends the traditional sealing spacer, bringing forth a revolutionary improvement in the process of insulated glass manufacture.

### 特点

- 增强了玻璃间的支撑力：波浪形铝带高度由原来的1.8mm提升至4.8mm，抗压力大幅度增强，加上高分子材料的应用，可显著改善中空玻璃受压力变形的变形问题。
- 吸潮性能显著提高：采用3A分子筛，使吸潮性能显著提高。
- 抗拉强度：原来传统胶条的骨架是单一的铝条，窗利来胶条是铝条、塑料隔热条、铝箔膜共同作为骨架，支撑力和抗拉强度有了大幅提高。
- 真空铝箔包装，内附显示卡：用四层复合铝箔真空包装，并带有湿度指示卡，指示胶条吸潮性能。
- 采用特殊配方使胶条性能不受气温变化而改变。



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### Product Features

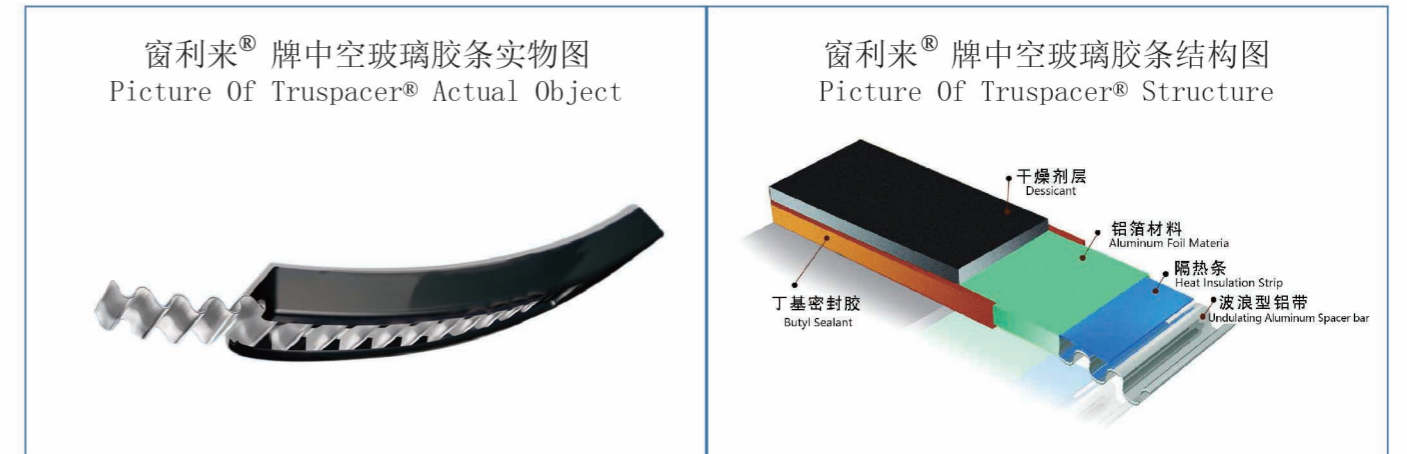
- The bearing power of the glass has been increased. The height of corrugated aluminum strip has been increased from 1.8mm to 4.8mm, and therefore the compressive resistance has been strengthened. Together with the application of high-polymer materials, the problem of insulated glass deformation under pressure has been significantly reduced.
- Moisture-absorption performance has been greatly enhanced through the use of the 3A molecular sieve.
- Tensile strength has been enhanced. The framework of the traditional strip was a single aluminum strip, but the framework of Truspacer is comprised of aluminum strips, plastic insulation strips and aluminum sheets, thus facilitating a dramatic increase in tensile strength.
- Vacuum-packed with aluminum foil, with indicator card is available inside. The products are packed with composite vacuum foil in four layers, and the indicator card shows the moisture-absorption performance.
- The application of a special process stabilizes the strip performance so that it isn't affected by temperature variations.

### 应用

- 胶条可独立密封。
- 胶条也可在外侧涂单组份热熔胶或聚硫胶，以增强其结构性能（必须做相容性试验）。

### Application

- The strip can be used independently for sealing.
- It can also be coated with single-component hot-melt adhesive or polysulfide adhesive from the outside of the strip to enhance its structural performance (compatibility testing is required).



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## 窗利来® 全塑中空玻璃暖边胶条

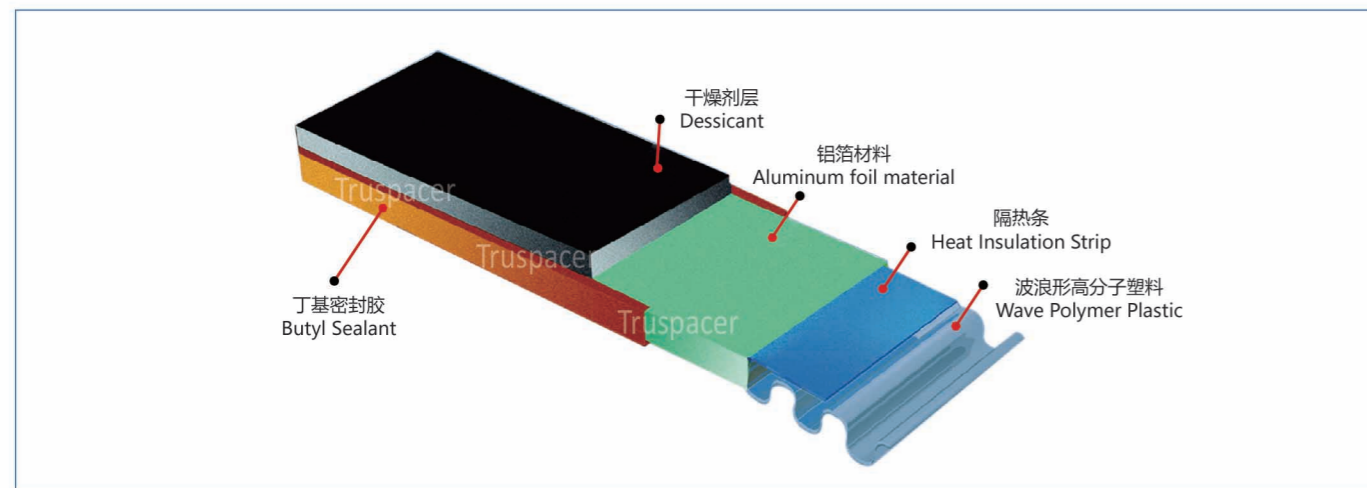
### Truspacer® Plastic Insulating Glass Warm edge Spacer

### 简介

窗利来®全塑中空玻璃暖边胶条内部不含任何金属材料，可减少热量的流失，有效的降低了中空玻璃边缘的热传导，是制作暖边中空玻璃的首选产品。

### Introduction

Truspacer® plastic insulating glass warm-edged spacer does not contain any metal material, which can effectively reduce the loss of heat and the thermal conduction at the edge of the insulating glass. It is the first choice for producing the warm-edge insulating glass.



图片仅供参考，请以实物为准！  
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### 特点

- 隔热性好：无金属导热，节能降噪指标优于槽铝式双道密封。
- 灵活性强：柔性的暖边间隔条可任意弯曲，易于生产各种异形中空玻璃。
- 稳定性佳：抗风压和耐老化性能优异，产品失效率低，使用寿命更长。
- 效率更高：单道密封系统，无需二次密封胶，简化生产流程。

### Product Features

- Great thermal insulation: no metal thermal conduction, and its energy saving & noise reduction index is better than that of the dual-sealing aluminum-frame insulating glass.
- Strong flexibility: the flexible warm-edged spacer can be bent at will, making it easy to produce a variety of irregular insulating glass.
- Optimized stability: excellent wind pressure resistance and aging-resistance performance, low product failure rate, and long service life.
- High efficiency: the single-sealing system eliminates the secondary sealing, therefore, it simplifies the production processes.

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## 金宇® 牌中空玻璃胶条

### Jinyu® Compound Sealing Spacer for Insulated glass

### 简介

金宇® 牌中空玻璃胶条是由优质丁基橡胶、高分子粘合剂、干燥剂和连续的波浪形铝条复合而成。产品由秦皇岛国家检测中心依照标准GB/T11944-2012检测合格，该产品具有极佳的密封效果，超强的干燥能力，极低的水汽渗透率等优点，并且设备操作简单，质量易于控制，是制作中空玻璃的尚佳选择。

### Introduction

This product is made from high-quality butyl, polymer adhesives, desiccant and continuous corrugated aluminum strip. Therefore, it is certified in accordance with the standard GB/T11944-2012 directed by the Qinhuangdao National Inspection Center. The product offers an excellent sealing effect, superior drying capacity, extremely low water-vapor permeability and other advantages. Additionally, the product is easy to use. Its quality is easy to control, which makes it a better choice for the production of insulated glass.

### 特点

- 高分子粘合剂，增粘剂保证了优良的密封性能。
- 连续的波浪形铝条设计完全阻隔了水汽的渗透。
- 高比例的干燥剂配置完全吸收了留在玻璃间空气中的潮气，超强的吸附能力，保证了中空玻璃在-40度不结露。
- 高分子原料，防老剂等的加入有效抵御了恶劣环境的侵蚀，保证了中空玻璃的使用寿命。
- 生产速度快，节约了成本。

### 应用

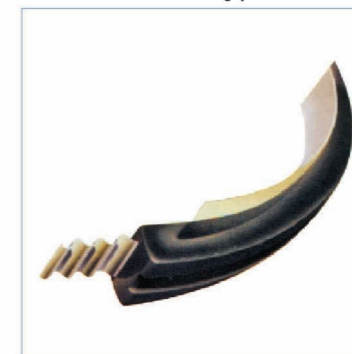
是制造建筑门窗、冰箱、工艺中空玻璃、大巴客车、火车等中空玻璃的必需品。

### Application

It's necessary used in windows and doors, refrigerator, artistic insulating glass, bus, train windows, etc.



### NO Groove Type 无槽型



■ 多合一的中空玻璃封闭系统，主要用于建筑门窗中空玻璃等

A combination of hollow glass sealing system, mainly used for insulating glass for building doors and windows





## 窗利多®中空玻璃复合间隔条 Truleader® Insulating Glass Compound Spacer

### 简介

窗利多®中空玻璃复合间隔条是我公司历经5年的自主研发，创造性的将丁基密封胶和铝隔条经过特殊工艺复合而成，配合我公司专用的折弯机，操作简单，大大简化了传统制作中空玻璃的繁琐工序，中空玻璃使用寿命可长达40年。世界首创技术，国内独家生产，将带给中空玻璃制作一次全新的技术革命。



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### Introduction

Truleader® insulating glass compound spacer is our company's product with independent development for 5 years. It is creatively composited by butyl sealant and aluminum spacer through special processes. The spacer is easy to operate with our company's customized bending machine. It greatly simplifies the traditional and cumbersome processes of producing insulating glass, and extends the service life of insulating glass up to 40 years. The world's first technology, and exclusive production in China, which will bring a new technological revolution to the insulating glass production.

### 特点

- 简化中空玻璃制作工艺，生产效率高，约是传统铝条工艺的两倍。
- 减少80%机械投入，节省设备占地空间。
- 单道密封，提高生产效率，节约生产成本。
- 无需固化时间，缩短工期，提高经济效益。

### Product Features

- Simplified the insulating glass production processes, and the improved production efficiency can reach up to twice of that of the traditional aluminum spacer.
- Reducing the investment of machinery by 80% and saving the equipment occupying space.
- Improving the production efficiency with single-sealing while saving the production cost.
- As no curing time, the production period can be shortened and economic benefit can be improved.

## 窗利来®中空玻璃用长条3A分子筛

## Truspacer® long-striped 3A Molecular Sieve dedicated for Insulating Glass

### 简介

窗利来®中空玻璃用长条3A分子筛是我公司最新产品，其保留了传统3A分子筛吸收水分子的特点，同时克服了使用传统分子筛颗粒制作中空玻璃时灌装时间长、吸附时间短、易失效等问题。提高了中空玻璃质量的稳定性，为制作中空玻璃提供了新的解决方案。



### Introduction

Truspacer® long-striped 3A molecular sieve dedicated for insulating glass is our company's latest product, which retains the ability of traditional 3A molecular sieve to absorb water molecules, while overcoming the shortcomings of long filling time, short adsorption time, easy to fail, and etc., using traditional molecular sieve particles to produce insulating glass. Therefore, the stability of the insulating glass quality is improved, and the product provides a new solution for the production of insulating glass.

### 特点

- 灌装简单，效率是传统灌装方式的7倍。
- 手工操作，无须机器。
- 有效的吸潮周期可长达168个小时。
- 1米/根，30米/袋。小包装，使用方便。

### Product Features

- The filling operation is simple and the efficiency is 7 times that of the traditional filling method.
- Manual operation - no machine required.
- The effective moisture absorption cycle can be as long as 168 hours.
- 1 m/strip, 30 m/package. Small package, easy to apply.

与分子筛颗粒技术指标对比  
Comparison with molecular sieve particles in technical indexes

	3A分子筛条 Striped 3A molecular sieve	3A分子筛（颗粒） 3A molecular sieve (particles)
设备 Equipment	无需设备，手工操作 NO equipment	分子筛灌装机 Need equipment
静态水吸附 Static adsorbed water	≥16.3%	≥20%
露点 Dew point	≤-60℃	≤-60℃
包装含水量 Moisture content in packaging	≤1	≤1.5
手工灌装速度（200g） Manual filling speed (200g)	10s	72s



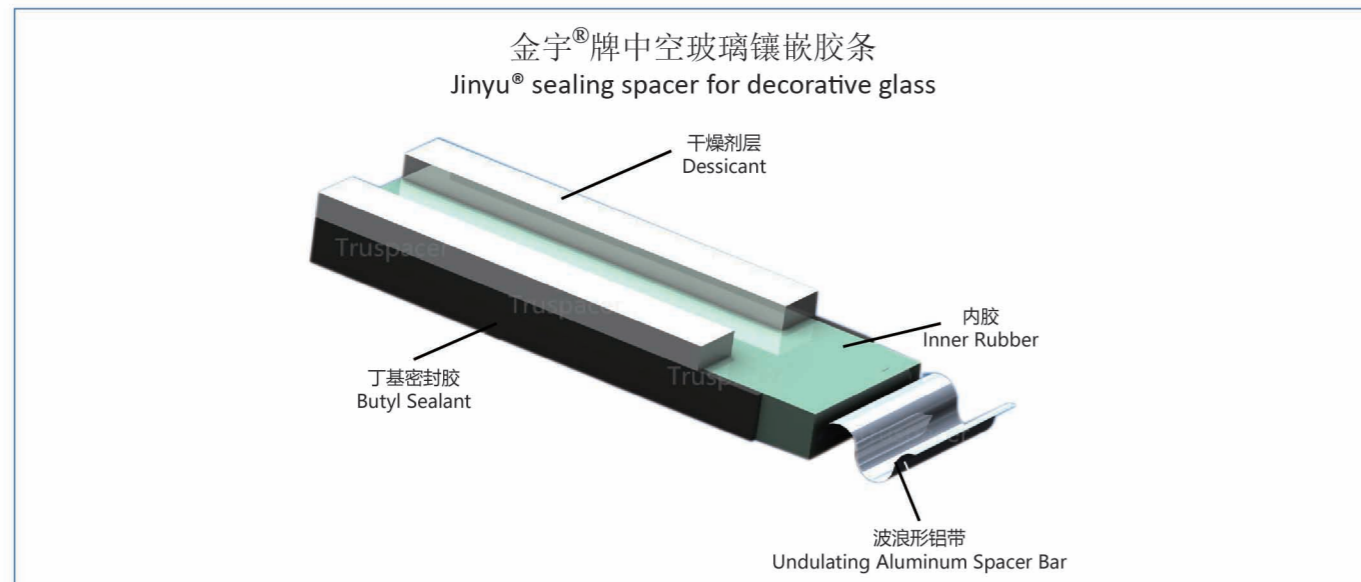
## 金宇®中空玻璃镶嵌胶条 Jinyu® sealing spacer for decorative glass

### 简介

金宇®中空玻璃镶嵌胶条由丁基密封胶、分子筛、内胶（骨架胶）三大功能区构成，并有波浪形铝带作支撑，产品结构设计独特而实用。经由国家玻璃质量监督检验中心依据标准GB/T11944-2012检测合格，生产操作简单，质量易于控制，是制作中空镶嵌玻璃的最佳选择。

### Introduction

Jinyu® mosaic spacer for insulating glass consists of three major functional elements, including the butyl sealant, molecular sieve and internal adhesive (skeleton adhesive), with the wavy aluminum strip as support, bringing a unique and practical structure design of the product. The product has passed the test performed by the National Supervision and Inspection Center of Glass Quality according to GB/T 11944-2012 Standard, and its production and quality control proves to be easy, therefore, it is the best choice for making mosaic insulating glass.



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The picture is for reference only.

### 特点

- 优质丁基密封胶，高分子粘合剂保证了优良的密封性能。
- 分子筛持续吸收残留在空间层内的潮气，有效的保证了中空玻璃内部干燥的密封环境。
- 连续的波浪形铝带设计完全阻隔了水汽的渗透。
- 高分子原料，防老剂等材料的加入有效抵御了恶劣环境的侵蚀，保证了中空玻璃长久的使用寿命。

### Product Features

- High-quality butyl sealant and polymer binders ensure excellent sealing performance.
- The molecular sieve keeps absorbing the humidity remained in the space layer, and this effectively ensures the dry sealed environment inside the insulating glass.
- The design of continuous wavy aluminum strip completely prevents the penetration of water vapor.
- The adding of materials such as high polymer material, antioxidant, etc., effectively resists the erosion in the bad environment and ensures the service life of insulating glass for a long time.



## 金宇® 防火玻璃胶条 Jinyu® fireproof glass strip

### 简介

金宇®防火玻璃胶条是由优质丁基橡胶和高分子粘合剂等材料制成，其优良的密封性能和水汽阻隔性能，使其适用于灌注型防火玻璃的边部密封。

### Introduction

Jinyu® fireproof glass strip is made of high quality butyl rubber, polymer adhesive and some other materials. Its excellent sealing performance and moisture barrier properties make it suitable for the edge sealing of infused fireproof glass.



### 特点

- 拥有优良的密封性和水汽阻隔性。
- 内置有机或无机材料的支撑物，确保防火玻璃的中空部分尺寸更加精准。
- 独有的工艺配方，使其与防火胶液完美结合，不发生任何化学反应。
- 使用方便，节约成本，制作防火玻璃效率更高。

### Product Features

- Excellent sealing performance and moisture barrier properties.
- Built-in support of organic or inorganic materials which ensures the accurate in size of the insulating part of the fireproof glass.
- The unique technical formula which makes it perfectly integrated with the fireproof glue without any chemical reaction.
- Convenient to apply, cost-effective, and more efficient in producing fireproof glass.

### 应用

适用于制作灌注型A类防火玻璃，该产品用于建筑装饰钢木门、窗、上亮、隔断墙、彩光顶，及其它需要既透明又防火的建筑组件中。

### Application

It is suitable for the production of infused fireproof glass (Grade-A). It can be used in architectural decorative steel wooden doors, windows, top bars, partition walls, makeshift roofs, and other building components that need to be both transparent and fireproof.

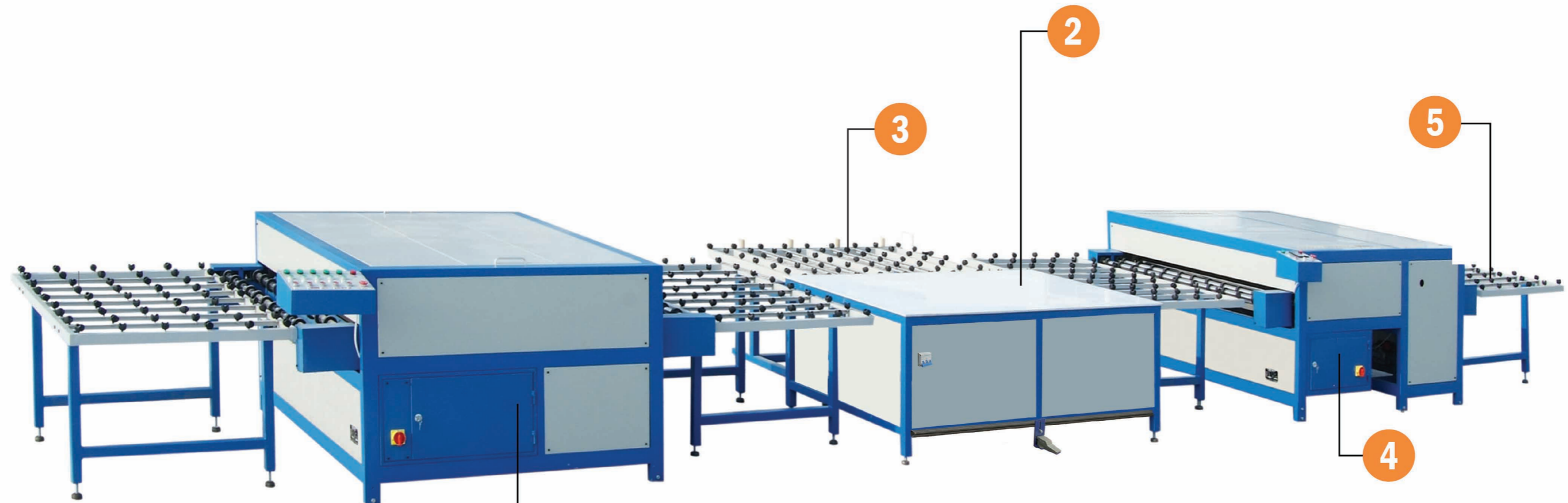




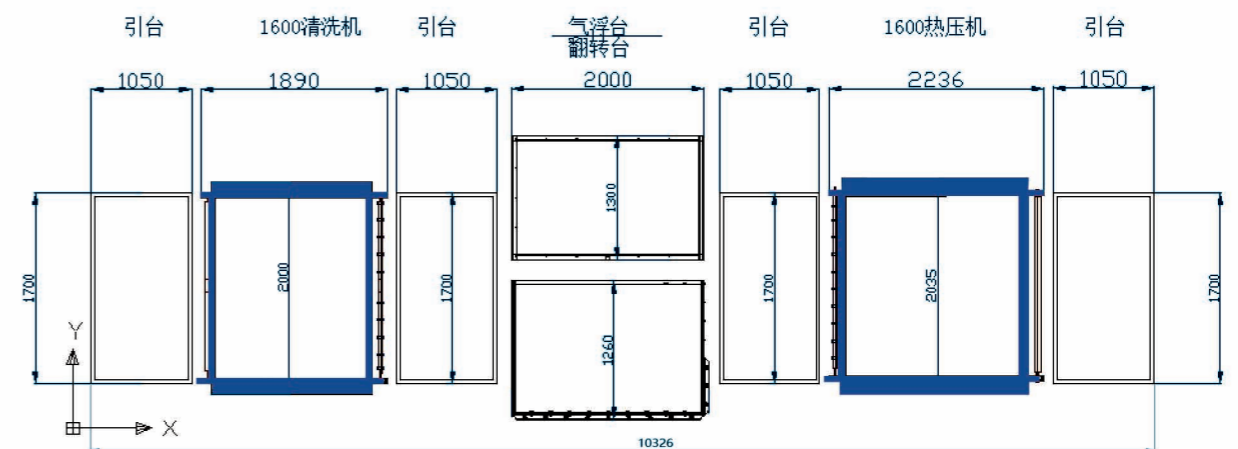
## CLLQT-1600/1800普通型复合胶条式中空玻璃生产线

CLLQT-1600/1800 Insulating glass production line

型号 Model	电源 Power	玻璃最大宽度 (mm) Max glass width	玻璃最小宽度 (mm) Min glass width	总功率 (Kw) Total	气源压力 (Mpa) Source pressure
CLLQT-1600	380V 50HZ	1600	400	25.5	0.4-0.6
CLLQT-1800	380V 50HZ	1800	400	30	0.4-0.6



1. CLLQ-1600型玻璃清洗干燥机  
CLLQ-1600 Glass washing and drying machine
2. CLLQF-1600型气浮台  
CLLQF-1600 Air-folating Station
3. CLLF-1600翻转合片台  
CLLF-1600 Glass rolling over table
4. CLLR-1600型中空玻璃热压机  
CLLR-1600 Glass hot presser
5. 玻璃输送台  
Glass guide platform







## 窗利来®牌中空玻璃热熔丁基胶

Truspacer® Hot Melt Butyl Sealant for Insulated glass

### 简介

热熔丁基胶是以优质丁基胶和聚异丁烯为基料制成的无溶剂密封材料，该产品对玻璃、铝和不锈钢等有超强粘接密封性能，具有不龟裂，不变硬，耐湿性好，对水汽的透过有很好的阻隔效果，是制造双道密封中空玻璃第一道密封的最佳材料。

### Introduction

Hot Melt Butyl Sealant is a solvent-free sealing material made on the basis of high quality Isobutylene-Isoprene Rubber (IIR) and polyisobutylene (PIB), this product has strong adhesive sealing performance for material like glass, aluminum, and stainless steel, it also has the characteristics of no cracks, no hardening, moisture resistance, good blocking effect of water vapor, it is the best material for the first sealed process in the manufacture of dual-sealed insulated glass.

### 特点

- 抗紫外线性能强。
- 对玻璃、铝和白钢有超强的粘结力。
- 摄氏100℃不流淌，-40℃不硬化、开裂。

### Product Features

- Strong UV resistance.
- Strong adhesive sealing performance for material like glass, aluminum, and stainless steel.
- It will not melt under 100°C, not harden nor cracks under -40°C.

### 使用方法

- 将铝隔条清洗干净备用。
- 将热熔丁基胶放入挤出机缸内加热到110℃-120℃，温控器保持恒温后，打出胶条检查均匀不断线时，将胶条涂抹到铝隔条槽上，稍放凉后与干净的玻璃压合成中空玻璃半成品，待涂完外道密封胶并固化后即中空玻璃成品。
- 做双道中空玻璃之前，必须对双道密封胶进行必要的相容性试验，延长中空玻璃的使用寿命。

### Usage

- Clean the aluminum spacer for later use.
- Put the hot melt butyl sealant into the extruder cylinder and heat to 110°C-120°C; after temperature maintaining stability in thermostat, apply the strip onto the rabbet of the aluminum spacer when the extruding strip is evenly distributed without breaking, cool it down and compress with the clean glass to make semi-finished insulated glass, after apply the strip onto the outer track and become solid, the insulated glass is finally output.
- Before making the dual-sealed insulated glass, the related compatibility experiment to double sealant is necessary in order to extend its service life.

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Patented products, counterfeiting not allowed!



### 产品规格

可按用户指定规格生产。

### Product specifications

Production process should follow the customer's specifications.

### 注意事项

取用热熔丁基胶时，手要清洁干净，胶的表面不要沾入灰尘，油污和溶剂（如丙酮、汽油等），打胶时可戴不掉毛的手套，进行涂抹操作，接触热胶时小心烫伤，接触胶的手套干净无毛边或其它易粘在胶上的污染物。

### Cautions

When taking and using the hot melt butyl sealant, keep your hands clean, avoid the dust, oil and dissolvent (such as acetone, gasoline, etc.) stick to its surface, wear lint-free glove while extruding the strip and to applying the sealant, pay attention to the hot rubber to avoid scalding, the glove which you wear to touch the rubber should be clean, no burr and other contaminant which easily stick to the rubber.

### 用途

槽铝式双道密封中空玻璃第一道密封。

### 包装

桶装直径160/180mm，重量5/7kg。

### 贮存及运输

- 本品可按非危险品运输。
- 贮存在室内，保持清洁、干燥。

### Usage

Used in the first sealing process in the manufacture of dual-sealed insulated glass.

### Package

Barreled diameter 160/180 mm, weight 5/7 kg.

### Storage and transportation

- Transported as non-hazardous material.
- Stored in house, maintained clean and dry.







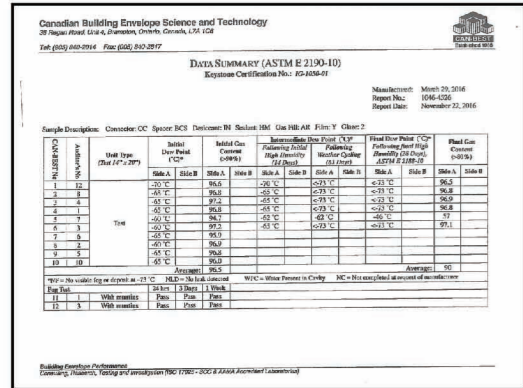
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质量管理体系认证  
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CE证书  
CE



俄罗斯GOST认证  
GOST



专利证书  
Patent certificate

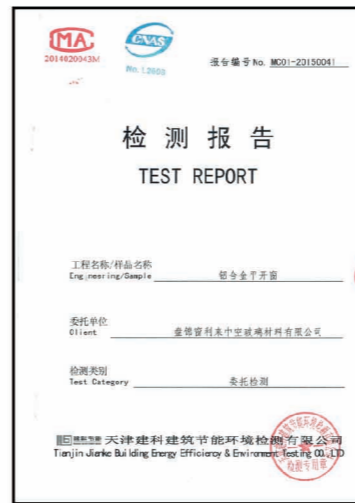


专利证书  
Patent certificate

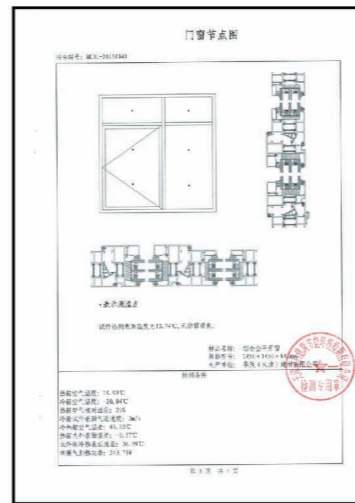
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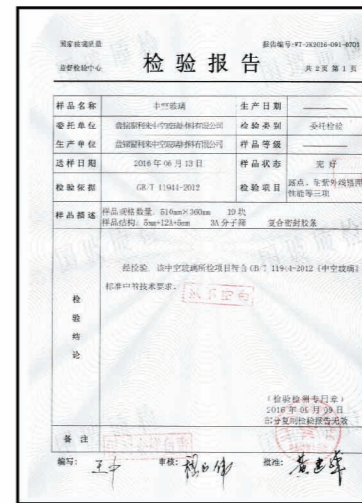
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National testing



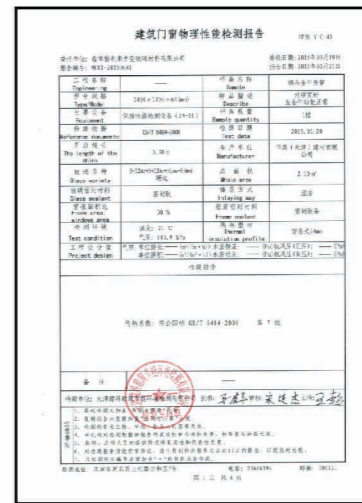
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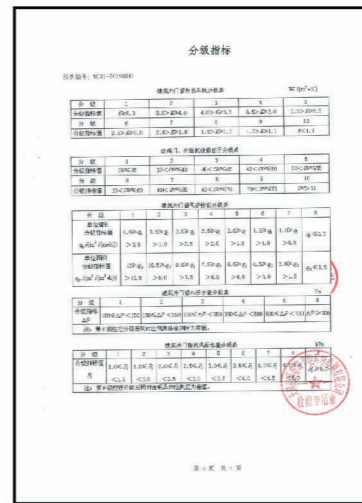
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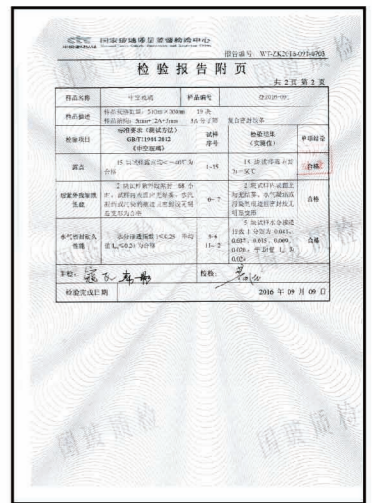
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National testing



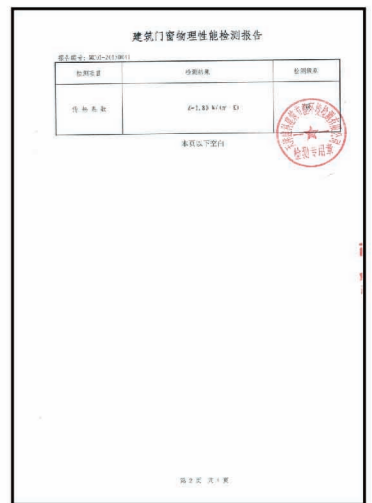
天津检测  
Tianjin testing



天津检测  
Tianjin testing



国家检测  
National testing



天津检测  
Tianjin testing



中国建筑金属结构协会  
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Patented products, counterfeiting not allowed!



工程实例 (部分)  
The project example(partial)



齐齐哈尔华鹤集团厂房  
选用窗利来暖边胶条 14A



兴隆集团丹东宽甸商住一体  
选用窗利来暖边胶条 12A



辽宁省抚顺方大  
选用窗利来暖边胶条 9A



河北省北戴河疗养院  
选用窗利来暖边胶条 12A



恒仁良裕酒庄别墅区  
选用窗利来暖边胶条 14A



黑龙江省齐齐哈尔富裕塞纳豪庭  
选用窗利来暖边胶条 12A



辽宁省抚顺君悦国际城  
选用窗利来暖边胶条 12A

工程实例 (部分)  
The project example(partial)



大连庄河巴黎春田  
选用窗利来暖边胶条 9A



沈阳其仕郡亚美利加小区  
选用窗利来暖边胶条 12A



沈阳铁西万达  
选用窗利来暖边胶条 12A



内蒙古阿荣旗熙和国际  
选用窗利来暖边胶条 9A





辽宁工业大学  
选用窗利来暖边胶条 14A



沈阳农业大学  
选用窗利来暖边胶条 14A



沈阳联锦左岸  
选用窗利来暖边胶条 9A



浑南·沿海赛洛城  
选用窗利来暖边胶条 9A



沈阳丽江苑  
选用窗利来暖边胶条 12A



银亿万万城  
选用窗利来暖边胶条 14A





发货 (部分)  
Delivery (partial)



展会 (部分)  
Exhibition (partial)

