

Foam Catalog of Chiao Fu Foam

# 喬福集團泡綿型錄



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# Soft Part Firm Support

誠信

Integrity

務實

Diligence

創新

Innovation

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# 關於喬福 About Chiao Fu

自1976年以來，我們深耕台灣泡綿製造技術近半個世紀，業務遍及台灣、中國大陸、香港、泰國、印度和澳洲。我們在全球擁有十多家泡綿生產工廠，已成為全球領先的軟性泡綿製造商之一，並在泡綿製造領域發揮著舉足輕重的作用。

從一開始，我們就將客戶視為我們重要的業務合作夥伴。我們堅信，沒有客戶的支持，我們就不可能成功。因此成為客戶的最佳業務夥伴，一直以來都是我們銘記於心的商業準則。

如今我們已成為航空和高鐵領域知名的座椅泡綿供應商，所有產品均符合客戶官方的需求並通過 CAA-PMA、CAAC-PMA、EN45545、NFPA130、FAR 25.853(a) / FAR 25.853(c) 等相關規範和認證。此外，在汽車產業領域中，喬福可提供廣泛的PU泡綿應用和解決方案，以滿足客戶對產品安全性和舒適性的追求。包括座椅泡綿、車頂內襯、引擎隔熱、吸音部件等內飾，均按照 IATF 16949 標準製造，並根據客戶要求進行 FMVSS 測試。

除上述產業外，喬福在醫療保健、家具、服裝等領域也擁有強大的業務連結。我們期待與您合作，成為您業務成長道路上的最佳商業夥伴。

Deeply rooted in Taiwan's foam manufacturing technology for nearly half a century since 1976, we have operations in Taiwan, China, Hong Kong, Thailand, India, and Australia. Having more than ten foam production plants around the world we have become one of the world's leading soft foam manufacturers and have played a decisive role in the foam manufacturing domain.

Since the beginning, we have treated customers as our important business partners. We deeply believe we couldn't succeed without the support from our customers. Being the best business partner for our customers has been kept in our hearts as the motto of our business conduct along the way.

Today we are a well-known supplier in aviation and high-speed rail domains offering seat foams and components that comply with the official regulations and pass the accreditations and certifications such as CAA-PMA, CAAC-PMA, EN45545, NFPA130, FAR 25.853(a) / FAR 25.853(c) and so forth. As well, in the Automotive industry, Chiao Fu also offers a wide range of PU foam applications & solutions for customers' pursuit of safety and comfort on their products. Including interiors like seating foams, headliners, engine insulation, sound absorption components, and so forth, all are made in compliance with IATF 16949 and tests of FMVSS as per customers' requirements.

In addition to the industries mentioned above, Chiao Fu also has strong business connections in the domains of medical & healthcare, furniture, garment, and others. We look forward to cooperating with you as your best business partner on the way to business growth.



# 喬福優勢 Why Chiao Fu

- 廣泛的泡綿選擇

我們有超過百種分類、樣式、物性與等級的泡綿產品，且不斷創新

- 先進的加工技術

我們透過專業加工設備與技術，滿足客戶的客製需求

- 完整的製造服務

我們的專業團隊可以提供一系列的泡綿部件、製成品與包裝等

- **Extensive foam selection**

we have more than 100 categories, styles, properties and grades of foam products, and we are constantly innovating

- **Advanced processing technology**

we meet customers' customized needs through professional processing equipment and technology

- **Complete manufacturing services**

our professional team can provide a range of foam parts, finished products and packaging, etc.

## 服務據點 Service Bases



📍 企業總部 / 台灣  
Headquarters, Taiwan

📍 中國 / 安徽 Anhui, China

📍 中國 / 廣州 Guangzhou, China

📍 泰國 / 曼谷 Bangkok, Thailand



# 品質檢驗 Quality Inspection

我們已成功通過多項國際品質檢驗，並獲得以下認證，包括

ISO9001、ISO14001、TS16949、RoHS、FMVSS 302（汽車材料燃燒性）、英國BS5852（軟墊座椅防火測試）、加州TB-117（軟墊家具材料的耐燻燒性）、台灣食品工業研究所（FIRDI）抗菌標準、CSA、勞氏船級社（Lloyd's Register）及美國保險商試驗所（UL）。

自2007年以來，喬福已獲得民航局（CAA）和中國民航局（CAAC）頒發的飛機座椅墊部件製造許可（PMA）。喬福堅信提供高品質產品、公平價格、使用綠色材料保護環境以及對社會做出貢獻的價值觀。

We have successfully passed numerous international quality examinations and certified with the following certifications including ISO9001, ISO14001, TS16949, RoHS, FMVSS 302 (Flammability of Automotive Materials), British BS5852 (Fire test of upholstered seating), California TB-117 (Smolder Resistance of Materials Used in Upholstered Furniture), Food Industry Research and Development Institute (FIRDI) Anti-bacterial Standards of Taiwan, CSA, Lloyd's Register and Underwriter Laboratory Inc (UL).

Since 2007, Chiao Fu has obtained the Parts Manufacturer Approval (PMA) for aircraft seat cushions issued by Civil Aeronautics Administration (CAA) and Civil Aeronautics Administration of China (CAAC). Chiao Fu believes in the values of providing quality products at fair prices, employing green materials to protect our environment, and making a contribution to the community.



CAA-PMA (Taiwan)



CAAC-PMA (China)



# 應用領域 Foam Applications



## 航太軌道

Aviation & Railway



## 汽車工業

Auto Industry



## 醫療照護

Medical & Healthcare



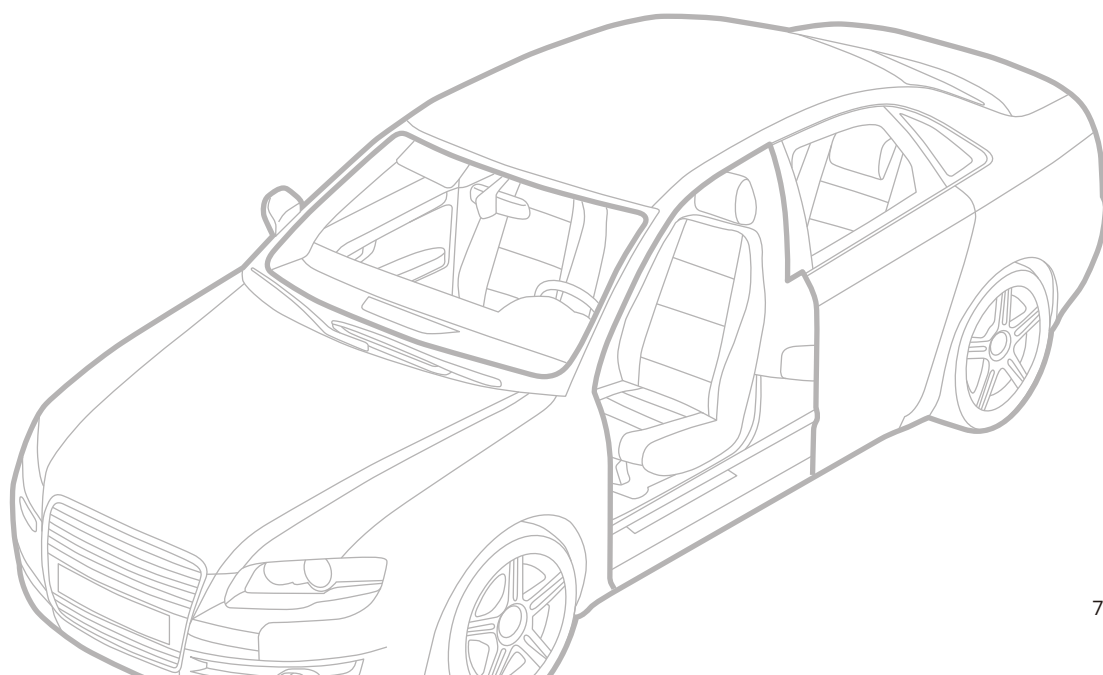
## 家具產業

Furniture Industry



## 其他工業

Other Industries





# 阻燃泡綿 Flame-Retardant Foam

## ◆特性說明

利用各式耐燃劑添加，來延緩泡綿延燒速度，使其產品符合目前各項國際耐燃標準。如英國防火BS-5852、加州防火CA-117、車用防火MVSS、各航太軌道級防火標準等。

## ◆應用產業

航太軌道、汽車工業、家具

## ◆Features

Using various flame retardant additives we can make a foam that will pass the various International Standards for fire retardancy (eg. BS-5852, CA117, MVSS No.302).

## ◆Applications

Aviation & Railway, Auto Industry, Furniture.



| 型號<br>Code | 密度<br>Density | 硬度<br>Hardness | 阻燃等級<br>Flam Retardant Degree |        |      | 測試規範<br>Applicable Standard | 用途<br>Usage  |
|------------|---------------|----------------|-------------------------------|--------|------|-----------------------------|--|
|            | Kg/m³         | Kg/314cm²      | BS-5852                       | CA-117 | MVSS |                             |  |
| DD21       | 19±2          | 12±2           | -                             | -      | ●    | MVSS No.302                 | 車材<br>Vehicles   |
| DD33       | 27±3          | 19±2           | -                             | -      | ●    | MVSS No.302                 |  |
| ED41       | 33±3          | 15±2           | -                             | -      | ●    | MVSS No.302                 |  |
| FF49       | 35±3          | 15±2           | ●                             | -      | -    | BS5852-Crib 5               | 一般用途、家具<br>General usage, Furniture                              |
| R352       | 22±2          | 9±2            | -                             | ●      | -    | TB-117                      | 一般用途、貼合、家具<br>General usage, Lamination, Furniture               |
| FM49       | 33±3          | 38±3           | -                             | ●      | -    | TB-117                      | 醫材 (抗菌阻燃)<br>Medical device<br>(Anti microbial, Flame-retardant) |
| DH69       | 50±5          | 30±3           | -                             | ●      | -    | TB-117                      | 電子<br>Electronics  |



# 火焰貼合泡綿 Flame Laminated Foam

## ◆特性說明

利用特殊貼合添加劑及阻燃劑，藉由火焰貼合加工方式，使泡綿產品與表皮材有效牢貼。

## ◆應用產業

汽車工業、鞋材、服飾貼合。

## ◆Features

Using special additives to retard flammability and enhance laminating we produce a foam capable of being flame laminated to fabrics and other materials.

## ◆Applications

Auto Industry, shoes, automotive trim and clothing.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        |         | 測試規範<br>Applicable Standard | 用途<br>Usage                                       |
|------------|-------------------|-----------------------|---------|-----------------------------|---|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | Asker°F |                             |   |
| A286       | 14±2              | 9±2                   | -       | JIS K 6400                  | 一般用途、貼合<br>General usage, Lamination              |
| DD21       | 19±2              | 12±2                  | -       |                             | 車用阻燃貼合<br>Vehicle lamination<br>(flame retardant) |



汽車工業  
Auto Industry



鞋材  
Shoes

# 頂棚芯材硬質泡綿 Headliner Rigid Foam

## ◆特性說明

天井材硬質泡綿，由於具備了輕量化、高強度、優良成型性及吸音性等優良特性，可以使用在汽車車頂之內飾材料，將來亦可運用在其他領域，如建築材料。

## ◆應用產業

汽車工業。

## ◆Features

Rigid foam specially formulated for automotive headliners to achieve light weight and high rigidity whilst offering excellent forming and sound absorption characteristics.

## ◆Applications

Auto Industry.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness | 抗張強度<br>Tensile     | 延伸率<br>Elongation | 撕裂強度<br>Tear | 測試規範<br>Applicable<br>Standard | 用途<br>Usage                             |
|------------|-------------------|----------------|---------------------|-------------------|--------------|--------------------------------|---|
|            | Kg/m <sup>3</sup> | Asker-F        | Kpa/cm <sup>2</sup> | %                 | nt/cm        |                                |   |
| EH44-2     | 32±3              | 36±3           | >200                | >185              | >10          | NES-M0086                      | 各式車材頂棚<br>Various<br>vehicle headliners |
| EH44-5     | 20±2              | 25±4           | >150                | >18               | >6           |                                |   |
| EH47       | 50±2              | ≥40            | ≥300                | ≥20               | ≥11          | TSF7762/<br>TSL3616            |   |



汽車工業  
Auto Industry

# 高密度/高硬度泡綿

## High Density/High Hardness Foam

### ◆特性說明

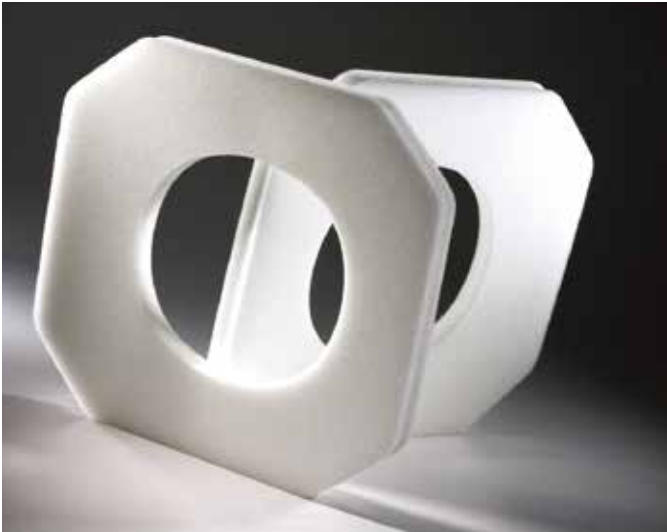
相較於一般泛用泡綿，其密度及硬度相對偏高之特殊泡綿產品。

### ◆應用產業

汽車內裝、鞋材、家具、醫療器材。

### ◆Features

This foam has been specially formulated to produce foams with significantly higher density and hardness compared to those achieved with conventional polyurethane foam.



### ◆Applications

Automotive interiors, shoes, furniture and medical equipment.

| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 測試規範<br>Applicable<br>Standard | 用途<br>Usage                                    |
|------------|-------------------|-----------------------|--------------------------------|--|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> |                                |  |
| EH33       | 27±3              | 28±3                  | JIS K 6400                     | 家具、貼合、車材<br>Furniture,<br>Lamination, Vehicles |
| DH32       | 30±3              | 40±4                  |                                | 車材、鞋業<br>Vehicles, Shoe industry               |
| DH47       | 33±3              | 32±3                  |                                | 鞋業、貼合<br>Shoe industry, Lamination             |
| EH42       | 38±3              | 54±5                  |                                | 車材<br>Vehicles                                 |
| DH55       | 46±4              | 48±4                  |                                | 車材、一般用途<br>Vehicles, General usage             |
| EH61       | 50±5              | 27±3                  |                                | 電子、一般用途<br>Electronics, General usage          |



# 惰性泡綿 / 低回彈泡綿 Low Resilience Foam

## ◆特性說明

利用具有高開泡性及黏著性特殊聚醚，發泡生產具有慢回彈及吸震特性之泡綿產品，對於重量及溫度敏感性要求，達到最佳支撐配合的效果。

## ◆應用產業

枕頭、寢俱、坐墊、運動器材、鞋材、醫療器材。

## ◆Features

Using special polymers we are able to manufacture foams with very low resilience. These foams readily deform to the shape of the object resting on them whilst giving even support to the entire resting surface.

## ◆Applications

Pillows, Bedding, Cushions, Sports Equipment, Shoes, Medical Equipment.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        |         | 反撥彈性<br>BR | 測試規範<br>Applicable Standard | 用途<br>Usage                               |
|------------|-------------------|-----------------------|---------|------------|-----------------------------|---|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | Asker°F |            |                             |   |
| EL48       | 37±4              | 3±2                   | -       | ≤3         | JIS K 6400                  | 枕頭、寢具、內衣<br>Pillow, Bedding, Underwear    |
| EL65       | 52±5              | 6±2                   | 15±5    | <25        |                             | 枕頭、寢具、運動器材<br>Pillow, Bedding, Sport gear |
| EL67       | 55±6              | 12±2                  | 48±8    | -          |                             |   |
| EL66       | 59±6              | 9±2                   | 30±5    | <25        |                             |   |
| EL97       | 80±6              | 15±2                  | -       | -          |                             | 家具、鞋材、運動器材<br>Furniture, Shoe, Sport gear |
| EL96       | 90±6              | -                     | 90±4    |            |                             | 鞋材、包材<br>Shoe, Packaging materials        |

# 高回彈泡綿 High Resilience Foam

## ◆特性說明

利用特殊聚醚原料配合發泡，生產極佳反撥彈性之特殊材質，並配合其舒適特性。

## ◆應用產業

家具、玩具、鞋材、運動器材、醫療器材。

## ◆反撥彈性

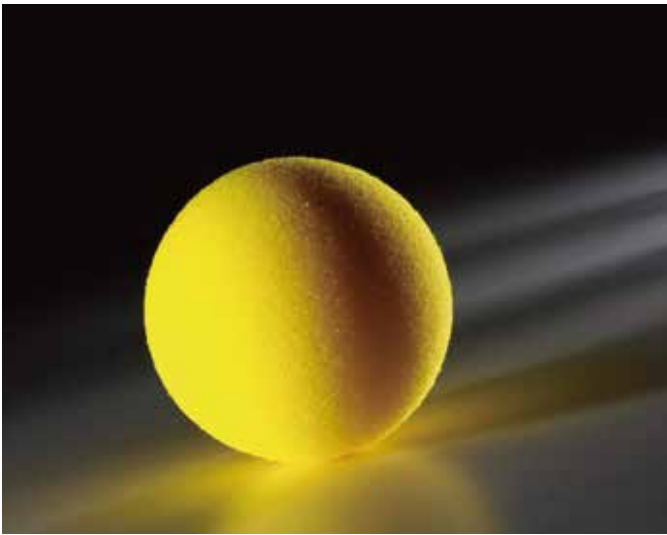
高於50%

## ◆Features

Using special polymers we are able to produce foams with high resilience (bounce) which is nearly 50% more than that of standard foam.

## ◆Applications

Furniture, Toys, Shoes, Sports Equipment, Medical Equipment.



## ◆Ball Rebound Resilience

Over 50%

| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 舒適度指數<br>Comfort Degree | 測試規範<br>Applicable Standard | 用途<br>Usage                               |
|------------|-------------------|-----------------------|-------------------------|-----------------------------|---|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | SAG Factor              |                             |   |
| ER30       | 21±2              | 2±2                   | ≥2                      | JIS K 6400                  | 玩具、家具、運動器材<br>Toy, Furniture, Sport gear  |
| ER41       | 30±3              | 7±2                   |                         |                             | 家具、運動器材<br>Furniture, Sport gear          |
| ER40       | 36±4              | 11±2                  |                         |                             |   |
| ER46       | 35±3              | 13±2                  |                         |                             |   |
| ER61       | 54±5              | 17±2                  |                         |                             | 家具、運動器材、鞋材<br>Furniture, Sport gear, Shoe |
| ER62       | 58±6              | 12±2                  |                         |                             | 鞋材<br>Shoe                                |
| DB92       | 100±10            | 38±4                  |                         |                             |   |

# 聚酯泡綿 Polyester Foam

## ◆特性說明

利用聚酯 (polyester) 原料進行發泡生產，與聚醚 (polyether) 泡綿相異處，在於其泡孔結構細緻整齊，具有較佳之機械性能且不易受到有機溶劑影響。

## ◆應用產業

耳機、雪鏡框、清潔產品、坐墊、各類加工及貼合產品。

## ◆Features

Polyester foam have a finer cell structure and superior physical properties to polyurethane foam. They also have good resistance to organic solvents and are suitable for flame lamination.

## ◆Applications

Headset, Snow Goggle Frames, Cleaning Products, Cushion, Various Processing and Laminating products.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 撕裂<br>Tear        | 抗拉<br>Tensile | 延伸率<br>Elongation | 泡孔數<br>Cell qty. | 測試規範<br>Applicable Standard | 用途<br>Usage  |
|------------|-------------------|-----------------------|-------------------|---------------|-------------------|------------------|-----------------------------|--|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | Kg/m <sup>2</sup> | Kg/cm         | %                 | No./in           |                             |  |
| PS76       | 50±3              | 22±3                  | 0.8 ↑             | 1.2 ↑         | 180 ↑             | 47~52            | JIS K 6400                  | 油漆刷、內衣、<br>防風鏡、鼓紙、濾清器<br>Paint brush, Underwear,<br>Wind proof mirror, Filtrator |
| PS81       | 60±5              | 20±3                  | 0.9 ↑             | 1.2 ↑         | 250 ↑             | 47 ↑             |                             |  |
| PS87       | 31±2.5            | 18±3                  | 1.4 ↑             | 1.5 ↑         | 200 ↑             | 47~53            |                             | 油漆刷<br>Paint brush   |



耳機  
Headset



內衣  
Underwear



# 泛用泡綿 General Foam

## ◆特性說明

利用基礎聚醚多元醇 (polyether polyol) 發泡生產，根據材質密度及硬度區別，展現不同之物理性能。

## ◆應用產業

包裝、衣飾、玩具、家具、醫療器材、等一般民生產品。

## ◆Features

General foam is manufactured using basic raw materials and can be formulated to give a range of different hardnesses and densities.

## ◆Applications

Packaging, Clothing, Toys, Furniture, Medical Equipment and other general consumer products.



| 型號                                   | 密度                | 硬度                    | 測試規範                | 用途                                 |
|--------------------------------------|-------------------|-----------------------|---------------------|------------------------------------|
| Code                                 | Density           | Hardness              | Applicable Standard | Usage                              |
|                                      | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> |                     |                                    |
| 低密度泛用泡綿 Low Density Flexible Foam    |                   |                       |                     |                                    |
| C296                                 | 13±2              | 17±2                  | JIS K 6400          | 家具<br>Furniture                    |
| A215                                 | 16±2              | 14±2                  |                     | 貼合、皮件<br>Lamination, Leather       |
| 中密度泛用泡綿 Medium Density Flexible Foam |                   |                       |                     |                                    |
| A352                                 | 20±2              | 10±2                  | JIS K 6400          | 車材<br>Vehicles                     |
| A382                                 | 24±3              | 10±2                  |                     | 成衣<br>Clothing                     |
| A430                                 | 30±2              | 16±2                  |                     | 一般用途<br>General usage              |
| 高密度泛用泡綿 High Density Flexible Foam   |                   |                       |                     |                                    |
| C589                                 | 43±4              | 30±3                  | JIS K 6400          | 車材、一般用途<br>Vehicles, General usage |
| C560                                 | 40±4              | 12±2                  |                     | 一般用途<br>General usage              |
| C635                                 | 51±5              | 23±2                  |                     | 車材、一般用途<br>Vehicles, General usage |

# 吸音泡綿 Sound Absorption Foam

## ◆特性說明

利用特殊發泡技術，生產高透氣性且具吸音特殊泡孔結構之泡綿產品，可有效吸收音波，不使其反射。

## ◆應用產業

隔音材、釋壓床墊

## ◆通氣性

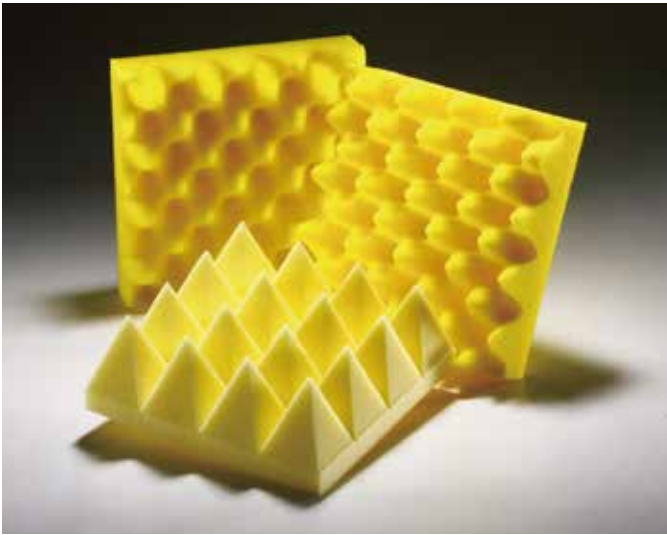
大於 150 cc/cm2/sec

## ◆Features

Special foaming techniques are used to produce a foam which is very porous making it effective for sound absorption.

## ◆Applications

Sound Insulation Materials, Pressure Relief Mattress.



## ◆Air permeability

Over 150 cc/cm2/sec

| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 通氣性<br>AP               | 測試規範<br>Applicable Standard | 用途<br>Usage                                    |
|------------|-------------------|-----------------------|-------------------------|-----------------------------|--|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | cc/cm <sup>2</sup> /sec |                             |  |
| A286       | 14±2              | 9±2                   | ≥100                    | JIS K 6400                  | 貼合隔音材<br>Sound-proof materials                 |
| F332       | 23±2              | 10±2                  | ≥50                     | JIS K 6400<br>TB-117        | 家具、貼合隔音材<br>Furniture<br>Sound-proof materials |



包材

Packaging

# 耐黃變泡綿 Anti Yellowing Foam

## ◆特性說明

利用添加特殊抗黃變添加劑，有效提升對UV之穩定性，改良泡綿不耐UV而易生氧化黃變之缺點。

## ◆應用產業

女性內衣、鞋材、運動器材

## ◆耐黃等級

高於3級

## ◆Features

Using special additives in the formulation we are able to product foam which resist the oxidation of the foam by U.V. light thus preventing any discolourization or yellowing of the foam.

## ◆Applications

Women's Underwear, Shoes, Sports Equipment.



## ◆UV Discoloration

Above grade 3

| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 耐黃級數<br>UV Discoloration Degree | 測試規範<br>Applicable Standard | 用途<br>Usage     |
|------------|-------------------|-----------------------|---------------------------------|-----------------------------|-----------------|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | UV                              |                             |                 |
| DV33       | 22±2              | 11±2                  | ≥3.5                            | JIS K 6400                  | 內衣<br>Underwear |
| DV35       | 28±3              | 9±2                   |                                 |                             |                 |
| DV36       | 28±3              | 9±2                   |                                 |                             |                 |



內衣  
Underwear



鞋材  
Shoes



# 抗靜電泡綿 Anti-Static Foam

## ◆特性說明

利用特殊添加劑，藉由電子的傳導有效卸除產品表面之靜電離子。

## ◆應用產業

弱電包材、耳機、列表機墨水盒

## ◆靜電抗性

106~1011

## ◆Features

By Using special ingredients in the formulation we can produce a foam capable of conducting electricity thus preventing the build up of any static electricity in the foam.

## ◆Applications

Weak Current Packaging Materials, Headphones, List Machine Ink Tanks.

## ◆Anti-static Features

106~1011



| 型號   | 密度                | 硬度                    | 抗靜電性                              | 測試規範                | 用途  |
|------|-------------------|-----------------------|-----------------------------------|---------------------|---|
| Code | Density           | Hardness              | Anti-static                       | Applicable Standard | Usage   |
|      | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | Ω                                 |                     |   |
| ES23 | 20±2              | 13±2                  | 10 <sup>9</sup> ~10 <sup>11</sup> | JIS K 6400          | 電子、包材、耳機<br>Electronics, Packaging materials, Headset |
| ES34 | 26±2              | 13±2                  |                                   |                     |   |



耳機  
Headset



包材  
Packaging

# 過濾/海藻泡綿 Filter/Sea Sponge Foam

## ◆特性說明

利用特殊發泡技巧，有效控制泡孔結構及延伸特性，結合破泡加工製程，使泡綿產品具有高度通氣性，並藉由不同粗細形式之泡孔結構，作為隔離及清潔材料。

## ◆應用產業

清淨器、冷氣、魚缸及清潔器材等居家用途。

## ◆Features

By altered foaming techniques we can produce foam with a cell structure similar to naturally occurring sea sponges.

## ◆Applications

Purifiers, air conditioners, fish tanks and cleaning equipment.



| 型號               | 密度                | 硬度                    | 泡孔數       | 測試規範                | 用途                       |
|------------------|-------------------|-----------------------|-----------|---------------------|--------------------------|
| Code             | Density           | Hardness              | Cell qty. | Applicable Standard | Usage                    |
|                  | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | No./in    |                     |                          |
| 過濾泡綿 Filter Foam |                   |                       |           |                     |                          |
| EK24             | 15±2              | 9±2                   | 50-90     | JIS K 6400          | 過濾材<br>Filter material   |
| EK31             | 21±2              | -                     | 30-90     |                     |                          |
| EK40             | 34±3              | -                     | 30-90     |                     |                          |
| 海藻泡綿 Sponge Foam |                   |                       |           |                     |                          |
| EK20             | 20±2              | 10±2                  | -         | JIS K 6400          | 清潔器材<br>Cleaning devices |
| EK23             | 16±2              | -                     |           |                     |                          |
| EK36             | 22                | -                     |           |                     |                          |

# 抗菌防蟎泡綿 Anti Microbial Foam

### ◆特性說明

利用添加特殊抗菌劑，並經過食品工業發展研究所及SGS (台灣檢驗科技股份有限公司) 測試合格。

### ◆應用產業

奶瓶刷、沐浴刷、醫療床墊、寢具。

### ◆Features

Using special antimicrobial additives in the formulation we are able to produce foams which are approved by FIDRI (Food Industry Research & Development Institute) and the SGS Testing Agency for use in the food and health industries.

### ◆Applications

Bottle brushes, bath scrubbers and hospital bedding.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 抗靜等級 (%)<br>Anti-Microbial Degree |                           | 測試規範<br>Applicable Standard       | 用途<br>Usage              |
|------------|-------------------|-----------------------|-----------------------------------|---------------------------|-----------------------------------|--------------------------|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | 葡萄球菌<br>Staphylococcus            | 黑麴黴菌<br>Aspergillus niger |                                   |                          |
| DM42       | 40±2              | 13±2                  | 0                                 | 0                         | JIS Z 2911<br>(黑麴黴菌)              | 醫療材<br>Medical materials |
| DM48       | 30±3              | 14±2                  |                                   |                           | JIS L 1902<br>(葡萄球菌)              |                          |
| EM42       | 36±4              | 15±2                  |                                   |                           | JIS Z 2911<br>(Aspergillus niger) |                          |
| EM47       | 30±3              | 17±2                  |                                   |                           | JIS L 1902<br>(Staphylococcus)    |                          |
| EM48       | 29±3              | 14±2                  |                                   |                           |                                   |                          |



# 植絨泡綿 Flock Foam

## ◆特性說明

利用特殊發泡技術，生產具高延伸特性且適用於織物植絨特殊泡孔結構之泡綿產品。

## ◆應用產業

成衣襯裡。

## ◆Features

By using special additives and foaming techniques we are able to produce foam capable of being elongated by over 200% together with a critical cell structure which enables the foam to be flocked.

## ◆Applications

Garment inner linings.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 延伸率<br>Elongation | 測試規範<br>Applicable<br>Standard | 用途<br>Usage    |
|------------|-------------------|-----------------------|-------------------|--------------------------------|----------------|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> | %                 |                                |                |
| A382       | 24±3              | 10±2                  | ≥150              | JIS K 6400                     | 成衣<br>Clothing |



成衣  
Clothing

# 碎綿再膠合泡綿    Rebonded Scrap Foam

## ◆特性說明

利用泡綿產品切邊餘料 (下腳料) ，進行粉碎後在高溫膠合壓製成型，可製作成超高密度之再生產品。

## ◆應用產業

辦公家具、運動器材及床墊。

## ◆Features

Off cut of foam are ground down into small pieces and are then compressed together and then bonded together to foam a new block of foam with high density.

## ◆Applications

Gymnasium sport mats, other sporting equipments, office furniture and automotive.



| 型號<br>Code | 密度<br>Density     | 硬度<br>Hardness        | 測試規範<br>Applicable<br>Standard | 用途<br>Usage                                |
|------------|-------------------|-----------------------|--------------------------------|--|
|            | Kg/m <sup>3</sup> | Kg/314cm <sup>2</sup> |                                |  |
| EC27-XX    | 80±20             | 50±5                  | -                              | 車材、家具、寢具<br>Vehicles, Furniture<br>Bedding |
| EC27-X2    | 100±20            | 60±5                  |                                |  |
| EC27-XA    | 115±15            | 75±5                  |                                |  |
| EC29-3A    | 125±15            | 80±5                  |                                |  |
| FC30       | 151±15            | 80±10                 | FMVSS302                       |  |



家具  
Furniture



# 恆溫涼感塗料

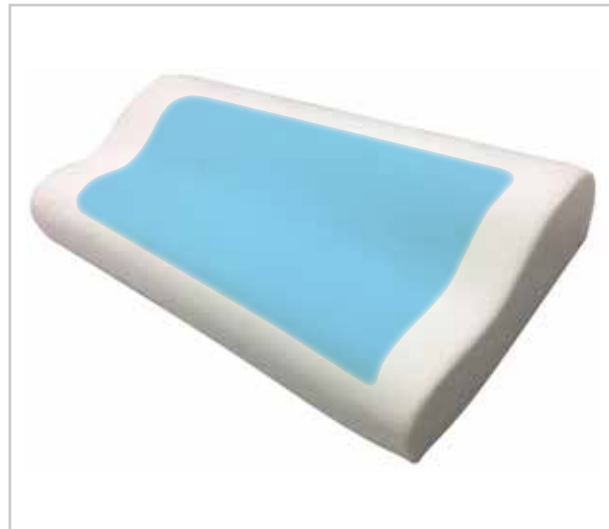
## Constant Temperature Cooling Coating

### ◆特色

獲全球「R&D100」殊榮，通過歐盟規範檢測，無有害物質遷移。  
水性塗料長效降溫，取代傳統凝膠技術。  
搭配「模塑枕」創造最佳涼感體驗。

### ◆權威肯定

- 榮獲2018全球「R&D100」材料屆奧斯卡殊榮
- 歐盟EN 71-3:2019，金屬元素0遷出，安全可靠
- SGS檢測，致癌成分、多環芳香烴0檢出
- 符合AfPS德國產品安全委員會1類指標



### ◆技術亮點

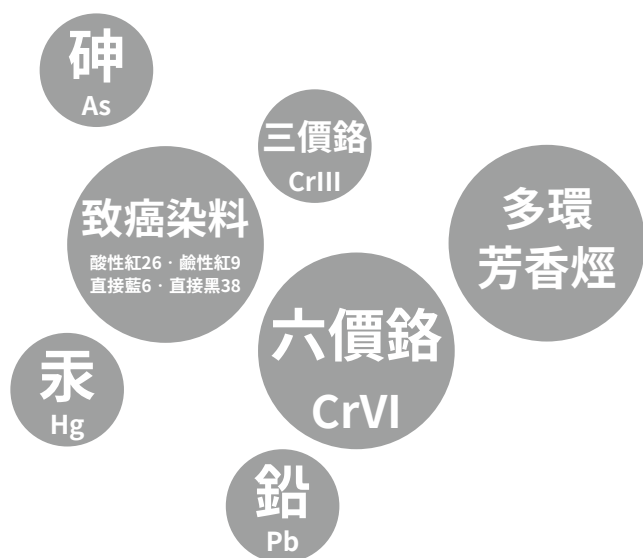
- 水性技術，無揮發性、無異味
- 塗層輕薄，持久耐用，躺感舒適UP
- 弱酸性塗料，安全親膚
- 亦可應用於鞋墊、床墊等多元產品
- 觸膚即涼，30秒瞬降3°C

### ◆替代凝膠技術的新選擇

- PU、PE材質不環保、不透氣
- 厚重不易移動、犧牲舒適度
- 涼感持續時間短、需頻繁移動身體  
最終被體溫同化失去涼感效果



- 涼感強度 50% ↑
- 涼感持久度 72% ↑
- 僅需凝膠十分之一的用量





# 醫材抗菌泡綿 Medical Antibacterial Foam

## ◆特色

擁有專業醫材生產資格 ISO 13485。  
專業實驗室，多種釋壓泡綿規格。台灣知名醫療機構、教學醫院採用。

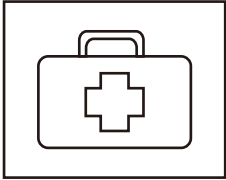
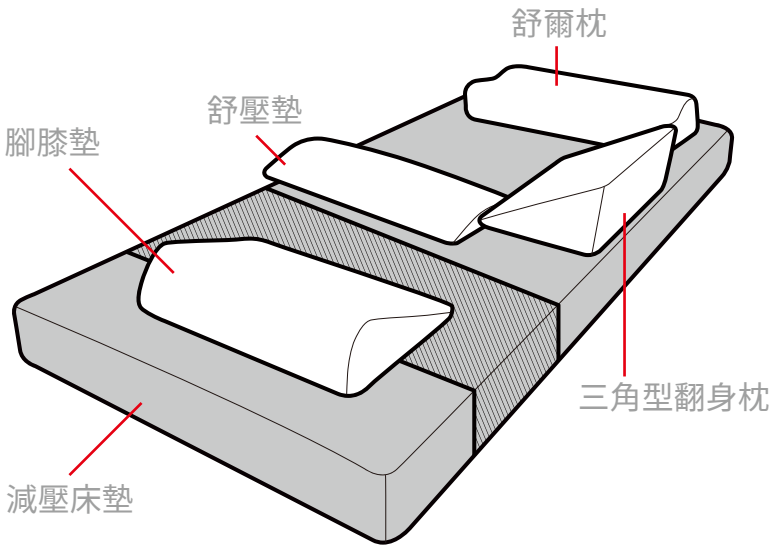
## ◆產品特色

- 多元產品功能性可選用: 阻燃 / 抑菌 / 防霉處理...等
- 多款醫材等級泡綿與機能布套可搭配:  
防水透濕、尿顯、防汙、防霉、抗菌...
- 國際標準檢測通過，安全、舒適的保證  
耐燃 TB-117 合格、美國/日本抗菌標準合格



## ◆能量優勢

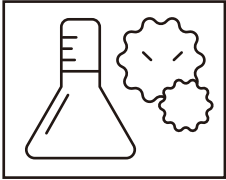
- 喬福自建符合國際標準實驗室防褥產品生產  
檢驗均依照 CNS-15910-2 標準
- 符合靜態型體壓降低、耐久性之雙重測試
- 研發各式擺位，全方位照護久臥患



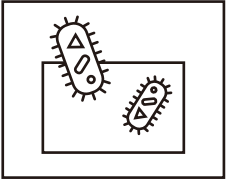
ISO 13485  
醫療材料生產資格



CNS-15910-2  
家用防褥瘡墊第二型



ASTM G21-96  
合成聚合材對真菌抗性



JIS L1902  
織品抑菌與殺菌能力

# 模塑枕 Molded Pillow

## ◆ 特色

喬福集團具有專業的模塑生產線，年產量數十萬顆高優質的模塑枕心。  
輕鬆同步國內外寢具名牌的生產實力。

## ◆ 多元合作

- 可依客戶功能需求，提供慢回彈與高回彈選項
- 多元客製合作: 開模訂製 / 枕芯採購 / 成品OEM / ODM
- 多元產品功能性可選用: 抑菌防霉 / 防火 / 模塑加貼合...等



## ◆ 技術亮點

- 採用國際 H 大廠優質原料模塑製造
- 成品低氣味、無毒，符合國際安規
- 慢回彈系列具有記憶泡綿釋壓效果
- 經久耐用，不易變形
- 造型可塑性高，精緻多元
- 尺寸精細度較一般裁切更準確

## ◆ 豐富的現有模具造型

專業研發近半世紀，配備壓力檢測設備，  
可依產品開發需求提供您最專業、實惠的建議

| 款式 | 蝴蝶             | 蝶形                 | 優眠                |
|----|----------------|--------------------|-------------------|
| 尺寸 | 67 x 36 x 12.5 | 65 x 34 x 5.5 / 10 | 60 x 35 x 13 / 11 |
| 特色 | 適應各種睡姿         | 按摩凸點+橫向溝槽          | M工法三點支撐           |
| 圖例 |                |                    |                   |

| 款式 | 曲線  | 護頸                                    | 肩頸                            | 標準  |
|----|---|---------------------------------------|-------------------------------|---|
| 尺寸 | 60 x 33 x 12 / 9<br>60 x 33 x 10.5 / 8<br>60 x 33 x 9 / 6.5<br>63 x 34 x 12 / 9 | 60 x 35 x 12 / 9<br>64 x 35 x 13 / 10 | 60 x 40 x 9<br>64 x 39 x 10.5 | 62 x 40 x 9<br>62 x 40 x 12<br>64 x 40 x 12 |
| 特色 | S工法服貼頸部曲線   | S+M兩道工法                               | 緩衝頭頸高低差                       | 標準萬用款                                       |
| 圖例 |   |                                       |                               |   |

# 親水綿 Hydrophilic Foam

## ◆ 特色

接觸瞬間即有冰涼感受，記憶泡綿觸感，可取代傳統乳膠材料應用。  
提供多種型號材料，可接受各種客製訂做。

## ◆ 親水高回彈綿 (科技乳膠)

- 具乳膠材效果的科技泡綿
- 耐用性較傳統乳膠優，經濟效益佳
- 無乳膠材久用後粉化的可能性
- 可避免因乳膠材使用而引起的致敏性
- 具抗霉變技術



## ◆ 親水慢回彈綿 (記憶綿)

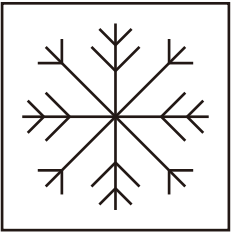
- 涼感效果顯著，配搭涼感面料組成舒適層效果更優
- 具低變形特性
- 具抗霉變技術

## ◆ 喬福泡綿(類)親水綿系列 SPEC

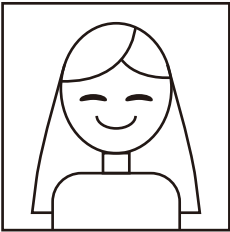
| 材質  | 型號       | 密度 | 硬度 |
|-----|----------|----|----|
| 高回彈 | W044-108 | 40 | 8  |
| 慢回彈 | W001-109 | 60 | 5  |
|     | W002-109 | 70 |    |

## ◆ 親水綿 vs 傳統乳膠

|      | 勝 | 親水綿    | 傳統乳膠   |
|------|---|--------|--------|
| 生產效率 |   | 快速、穩定  | 受自然影響  |
| 價位   |   | 經濟親民   | 價格昂貴   |
| 特性   |   | 涼感、抗霉變 | 易聚熱、致敏 |



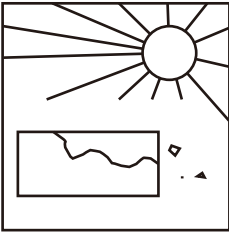
瞬間涼感



低致敏



抗霉變



不粉化



創新配方



**喬福集團**  
**CHIAO FU GROUP**

<https://www.chiaofu.com/>

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**TEL: +886-4-23596666**

**FAX: +886-4-23592255**

**E-Mail: [cfservice@chiaofu.com](mailto:cfservice@chiaofu.com)**



# Constant Temperature Cooling Coating

## ◆Featured

Awarded the prestigious global "R&D 100" honor and compliant with EU standards, ensuring no harmful substance migration.

Our water-based coating provides long-lasting cooling effects, replacing traditional gel technology.

Combined with our "Molded Pillow" it creates the ultimate cooling experience.

## ◆Authoritative Recognition

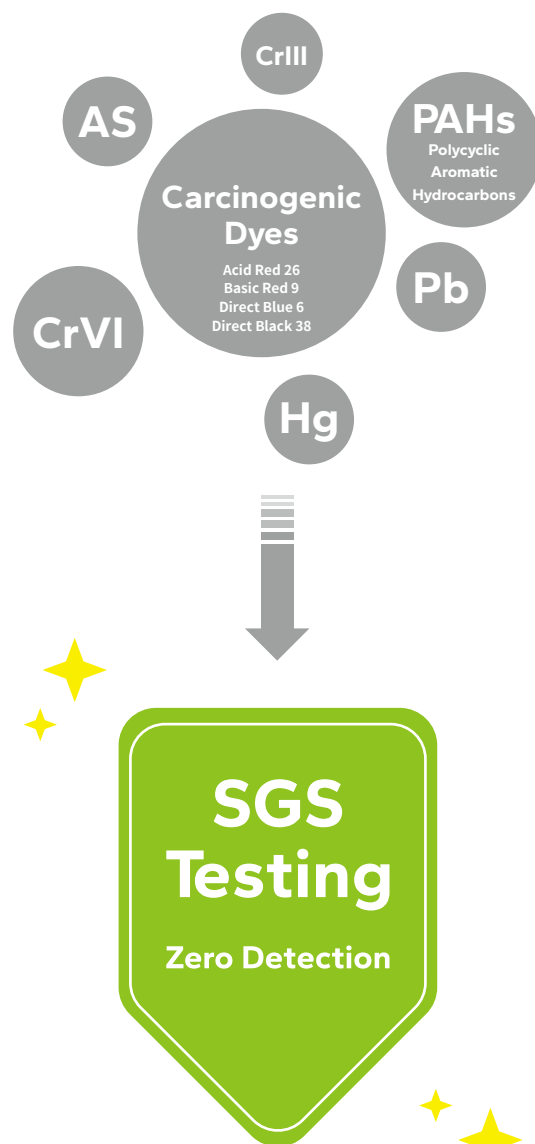
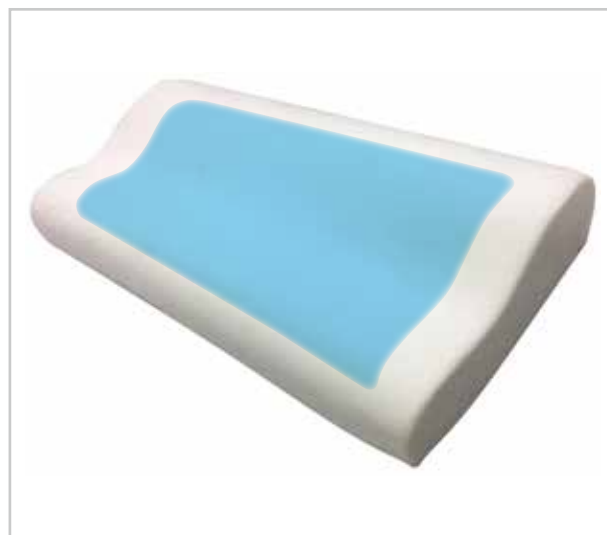
- Honored with the prestigious "R&D 100" Award in 2018, known as the Oscars of the materials industry.
- Compliant with EU EN 71-3:2019 standards, ensuring zero migration of metallic elements for safety and reliability.
- SGS tested, confirming zero detection of carcinogenic components and polycyclic aromatic hydrocarbons.
- Meets Class 1 criteria set by the AfPS German Product Safety Commission.

## ◆Technical Highlights

- Water-based technology with no volatile compounds and no odor
- Mildly acidic coating, safe and skin-friendly
- Instant cooling upon contact, reducing temperature by 3°C within 30 seconds
- Thin and durable coating for lasting comfort and enhanced lying experience
- Versatile applications including insoles, mattresses, and other products

## ◆A New Alternative to Gel Technology

- PU and PE materials are not eco-friendly and lack breathability
- Heavy and difficult to move, compromising comfort
- Short-lasting cooling effect requiring frequent body adjustments
- Cooling intensity increased by 50%
- Cooling duration extended by 72%
- Requires only one-tenth the amount of gel





# Medical Antibacterial Foam

## ◆Featured

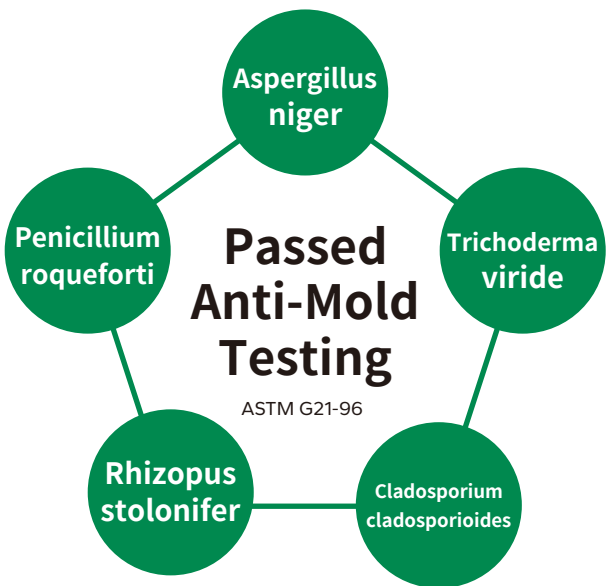
Certified with ISO 13485 for professional medical device production.  
Equipped with a professional laboratory offering various pressure-relief foam specifications.  
Adopted by renowned medical institutions and teaching hospitals in Taiwan.

## ◆Product Features

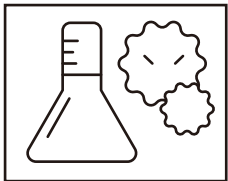
- Versatile Product Functional Options Available:  
Flame Retardant / Antibacterial / Anti-Mold Treatment, etc.
- Various Medical-Grade Foam and Functional Fabric Covers Available: Waterproof and Moisture-Permeable, Urine-Visible, Stain-Resistant, Anti-Mold, Antibacterial, etc.
- Compliant with International Standard Testing, Ensuring Safety and Comfort: Flame Retardant (TB-117) Compliant, Meets Antibacterial Standards for the USA and Japan.

## ◆Energy Advantage

- Chiao Fu's Self-Built Laboratory Meets International Standards for Pressure Ulcer Prevention Product Manufacturing.
- Testing Conducted in Accordance with CNS-15910-2 Standards
- Compliant with Dual Testing for Static Pressure Relief and Durability.
- Research and Development of Various Positioning Options for Comprehensive Care of Long-Term Bedridden Patients.



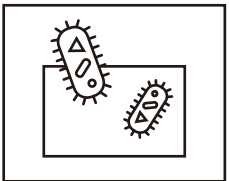
ISO 13485  
Medical Material  
Production Qualifications



ASTM G21-96  
Fungal Resistance of  
Synthetic Polymer Materials



CNS-15910-2  
Type II Home Use  
Pressure Ulcer  
Prevention Mattress



JIS L1902  
Antibacterial and  
Sterilization Capabilities  
of Fabrics

# Molded Pillow

## ◆Featured

Chiao Fu Group boasts a professional molding production line, with an annual output of hundreds of thousands of high-quality molded pillow cores. Easily matching the production capabilities of renowned domestic and international bedding brands.

## ◆Diverse Cooperation Options

- Customized options based on client functional requirements, offering slow rebound and high rebound choices.
- Versatile Custom Cooperation: Mold Opening and Customization / Pillow Core Procurement / Finished Product OEM / ODM.
- Various product functionalities available: Antibacterial and Anti-Mold / Fire-Resistant / Molding with Enhanced Fit, etc.

## ◆Extensive Range of Existing Mold Shapes

With nearly half a century of professional R&D experience and equipped with pressure testing equipment, we can provide you with the most professional and cost-effective advice based on product development needs.



## ◆Technical Highlights

- Manufactured using high-quality raw materials from international H brand.
- Finished products have low odor, are non-toxic, and comply with international safety regulations.
- Slow rebound series features pressure-relief effects of memory foam.
- Durable and resistant to deformation.
- High moldability for refined and diverse shapes.
- Greater precision in size compared to standard cutting.

| Style  | Butterfly Fairy | Butterfly Shape    | Optimal Sleep     |
|--------|-----------------|--------------------|-------------------|
| Size   | 67 x 36 x 12.5  | 65 x 34 x 5.5 / 10 | 60 x 35 x 13 / 11 |
| Legend |                 |                    |                   |

| Style  | Curve   | Neck Support                          | Shoulder and Neck             | Standard                                    |
|--------|---|---------------------------------------|-------------------------------|---|
| Size   | 60 x 33 x 12 / 9<br>60 x 33 x 10.5 / 8<br>60 x 33 x 9 / 6.5<br>63 x 34 x 12 / 9 | 60 x 35 x 12 / 9<br>64 x 35 x 13 / 10 | 60 x 40 x 9<br>64 x 39 x 10.5 | 62 x 40 x 9<br>62 x 40 x 12<br>64 x 40 x 12 |
| Legend |   |                                       |                               |   |

# Hydrophilic Foam

## ◆Featured

Instantly Cool to the Touch, with the Feel of Memory Foam, as a Substitute for Traditional Latex Materials.  
Offers Various Material Models and Accepts Custom Orders.

## ◆Hydrophilic High Rebound Foam (Technological Latex)

- Technological foam with the effects of latex material.
- More durable than traditional latex, providing better economic benefits.
- Eliminates the possibility of powdering after prolonged use.
- Prevents allergic reactions caused by latex material.
- Features anti-mold technology.




## ◆Hydrophilic Low Resilience Foam (Memory Foam)

- Significant cooling effect, enhanced when paired with cooling fabrics for a more comfortable layer.
- Features low deformation properties.
- Equipped with anti-mold technology.

## ◆Hydrophilic Foam Series SPEC

| Material             | Model    | Density | Hardness |
|----------------------|----------|---------|----------|
| High Resilience Foam | W044-108 | 40      | 8        |
| Low Resilience Foam  | W001-109 | 60      | 5        |
|                      | W002-109 | 70      |          |

## ◆Hydrophilic Foam vs. Traditional Latex

|                       |  Hydrophilic Foam | Traditional Latex                             |
|-----------------------|--|---|
| Production efficiency | Fast, Stable   | Affected by Nature                            |
| Price                 | Economical and Affordable  | Expensive                                     |
| Characteristic        | Cooling Effect, Anti-Mold  | Prone to Heat Retention<br>Allergic Reactions |