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**FIRE RESISTANT PRODUCTS**  
COLLECTION GUIDE

## KUANG TSAN COMPANY PROFILE AND PROSPECT 公司簡介

廣達科技致力於非貫穿防火塗料，特別為建築師設計防火填塞。這是最重要但最一般大眾最易忽略的部分。當火災發生時火勢往往會沿著樓梯、樓梯的樓梯間空腔口處延伸，火勢由樓梯間樓梯間樓梯上樓層蔓延擴大，產生煙向加壓，將煙火勢再擴散，再次影響樓上。所以樓梯間貫穿層的防火填塞是建築防火中重要的一部分，必須運用正確防火穿層阻火填塞系統達到更完善的防火效果。內政部建築研究所指出，建築物的防火區劃之保護及維護實為建築師在防火保護工程，範圍包括下列幾方：

- 給水、排水管貫穿樓板及牆壁部分保護。
- 風機、風機(轉)風管穿樓板及牆壁部分保護。
- 空壓管貫穿樓板及牆壁部分保護。
- 非空壓管貫穿樓板及牆壁部分保護。
- 樓梯風扇、樓梯風扇之樓梯間保護。

阻火填塞系統使用到專業防火材料，將樓梯及樓板內貫穿孔洞條件完整的填塞及密封處理。

本公司致力專業防火填塞，目前已開發：

- 鋼圈阻火填塞
- 鋼圈阻火填塞防火泥
- 非鋼圈阻火填塞
- 阻火填塞管
- 防火填塞管
- 陶瓷纖維管
- 防火板

本公司防火系統與品質符合防火材料上述，經過內政部建築師指定之實驗室檢驗合格且通過，均通過國內專業防火試驗 CNS 14074(2hr)阻火(Holding time-Holding)的防火耐燒標準。該項材料專業於建築防火填塞，由台灣共同研發製造，以提供國人高安全規格產品，以及專業防火填塞技術諮詢，防止火災蔓延，保護使用者生命財產安全。廣達與持有「負責、品質、專業」的觀念提升建築師的安全與專業，絕對是大家可以信賴的專業團隊。

Kuang Tsan Technology, Inc. is committed to the promotion of fire prevention materials, especially building structure penetration fire prevention filling. This is the most important and most neglected part by the general public. When fires break out, it will often spread along the walls and the staircase escape that go through the floors. The fire will spread to other floors, especially towards the floor above, creating a chimney effect, which allows the fire to spread quickly and widen the area of the disaster. Therefore, fire proof filling of the pipelines penetration is an important part of building fire protection, and requires the correct penetration fire proof system to achieve complete fire protection effects.

Ministry of the Interior's Building Research Institute pointed out that the floor and wall penetration fire prevention plan requires fire prevention construction, and the areas include the following:

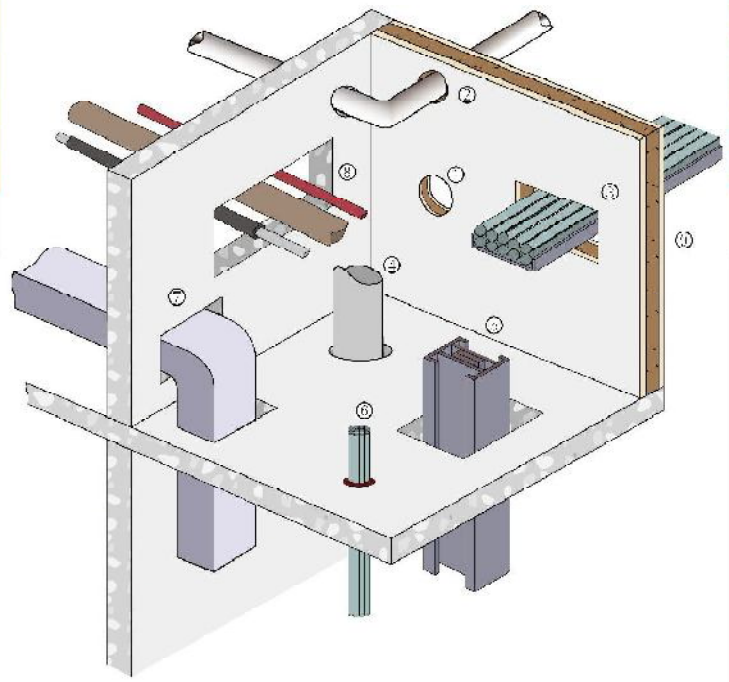
- Water supply and drainage pipe that penetrates through the floors and walls.
- Wires, cables (tray) gaps that penetrate through the floors and walls.
- Air duct gaps that penetrate through the floors and walls.
- Exhaust duct gaps that penetrate through the floors and walls.
- The telescopic joint space between floor and wall and between wall and wall.

Fire prevention system uses professional fire resistant material to completely fill and seal the gaps between floors, walls, and piping. Our company is committed to the research of fire protection products, and has so far developed:

- Solidifying type fire resistant filler
- Solidifying type expansion fire resistant filler
- Non solidifying type fire resistant filler
- Fire resistant packing
- Combustion proof fire resistant sleeves
- Ceramic Fiber
- Combustion proof fire resistant board

Our company's fire prevention series of products and penetration fireproof material methods has been through the Ministry of Interior's Construction and Planning Agency's designated laboratory testing, and has been certified in the domestic penetration fire proofing test CNS 14514 (2hr) (thermal resistance T Rating / cover flame T Rating) criteria.

## PIPELINES SKETCH MAP 管線示意圖



- 1 空孔
- 2 金屬管件
- 3 電纜線槽架
- 4 塑膠管件
- 5 阻火抹
- 6 電纜線束
- 7 風管
- 8 複雜管件
- 9 輕隔間

**SOLIDIFYING TYPE FIRE RESISTANT FILLER Solvent / Powder**  
**凝固型防火泥 KT-1003 溶剂/粉劑**

**使用範圍 USE**

凝固型膨脹防火泥(KT-1003)是由高品質無機材料與添加劑混合而成。對於具有耐火性可充分發揮防火效果。凝固型防火泥與火災無關時會產生作用。當發生火災時，由於膨脹作用，能防止火災蔓延。凝固型防火泥與火災無關時會產生作用。當發生火災時，由於膨脹作用，能防止火災蔓延。凝固型防火泥與火災無關時會產生作用。當發生火災時，由於膨脹作用，能防止火災蔓延。

Solidifying type fire resistant filler (KT-1003) is made from combining high temperature resistant inorganic materials and the solvent. It gives full fire resistant effect for penetrations. When solidifying type fire resistant filler cause is under fire and high temperature, it will produce a carbon layer to prevent the spread of fire and heat. It is suitable in building without penetration fire resistant sealant and filler. For floors and wall panels, cable trays, metal piping, plastic piping, air ducts, wiring conduits, air conditioning duct opening penetration, using solidifying type fire resistant filler (KT-1003) can effectively prevent flames and toxic smoke from spreading, reducing the spread and expansion of fires.

**產品特性、規格 PRODUCT FEATURES/SPECIFICATIONS**

- 規格：二種型 (淨重20kg/桶(10加侖)、粉劑20kg/桶)
- 顏色：灰紅色、灰色
- 不含鉛、無鹵素化合物
- 不含石棉、重金屬等物質
- 耐火時間：≥ 2hr(T Rating/ F Rating)
- 密度：1.8g/cm<sup>3</sup>
- 耐火溫度：≥ 200
- 壓縮率：< 10
- 硬化時間：< 15min
- 黏合力：與混凝土及金屬等有高度黏合力
- 質料性：耐濕、耐 PVC 及不銹鋼絲網黏性
- Specification: Binary compound formula (Solvent 20kg/barrel / Powder 20kg/box)
- Color: maroon, gray
- Not drying, Non volatile substances
- Does not contain asbestos, toxic halogen
- Fire resistance limit: ≥ 2hr(T Rating/F Rating)
- Density: 1.8g/cm<sup>3</sup>
- Oxygen index: ≥ 20
- Smoke density: < 10
- Curing time: < 15min
- Adhesive force: High degree of adhesion with concrete and metal.
- Corrosiveness: Non corrosive to lead, copper, PVC and stainless steel.

**防火性能 FIRE PERFORMANCE**

- 符合標準：CNS-14514認證標準、符合美國防火泥ASTM E-814 (F111-1479)及ASTM E-1199
- 防火性能：符合歐洲防火泥EN13634 (2hr耐火 T Rating/ 隔熱 H Rating)的防火認證標準
- Standard Qualification: CNS-14514 certification standard. Complies with U.S. fire regulations ASTM E-814 (with UL-1479 and ASTM E-1199)
- Fire resistant (per Penetration fire prevention test, CNS 13634) (per fire resistance) (Rating) (cover flame T Rating) fire prevention certification standards.

**施工方式 METHOD OF USE**

- 施工之前必須先將孔洞清潔乾淨，填塞填塞物，用刮刀刮乾淨，並用布擦乾或吹乾。
- 凝固型膨脹防火泥混合後，應儘速填塞於孔洞，用抹刀抹平即可。
- 很難孔洞大小與深淺不一，應填塞多，以免因乾不透而使用。

Before filling, the hole must be cleaned of all dirt and debris, and wiped clean with a damp cloth. After the surface is cleaned and dried, it can then be filled. Solidifying type fire resistant filler is a binary compound. The high temperature resistant inorganic powder should be mixed uniformly with a 1:1 ratio of the solvent, poured into the hole, and the surface smoothed out with a spatula.

**儲存 STORAGE**

建議儲存於通風乾燥陰涼處，儲存溫度 10℃~35℃，避光存放。

Recommend storing indoors in a ventilated, shady, and dry area. Storage temperature is 10°C~35°C to prevent dampening.

**SOLIDIFYING TYPE EXPANSION FIRE RESISTANT FILLER**  
**凝固型膨脹防火泥 KT-1005**

**使用範圍 USE**

凝固型膨脹防火泥(KT-1005)是重要防火材料。具有耐火作用。屬於膨脹型防火材料。當火災發生時，這火泥能產生膨脹層，具有耐火作用。當火災發生時，這火泥能產生膨脹層，具有耐火作用。當火災發生時，這火泥能產生膨脹層，具有耐火作用。

Solidifying type expansion fire resistant filler (KT-1005) is an important fire prevention filling material. It has an endothermic effect. belongs to the expansion type fire resistant material, and when the fire occurs, it will quickly generate expansion of carbon layer to seal gaps of penetrations and prevent fire, heat, and smoke from spreading. It is mainly used for building pipe penetrations and for prevention of cable racks, metal pipes, ducts, bus, and other openings between floors and walls.

**產品特性、規格 PRODUCT FEATURES/SPECIFICATIONS**

- 規格：20kg/桶(10加侖)
- 顏色：磚紅色
- 耐火時間：5~10A
- 耐火溫度：≥ 2hr(T Rating/ F Rating)
- 密度：< 20
- 硬化產生膨脹層
- 與混凝土、鋼管、安裝黏合
- 無揮發性物質
- Specification: 20kg / 10mlp gallon)
- Color: brick red
- Curing time: 5~10 days
- Fire resistance limit: ≥ 2hr(T Rating/F Rating)
- Density: < 20
- Heated expansion of the carbon layer.
- Adhesiveness: a good for easy and quick installation.
- Good burn resistance.
- Non-volatile substances

**防火性能 FIRE PERFORMANCE**

- 符合標準：CNS-14514認證標準、符合美國防火泥ASTM E-814(UL-1479)及ASTM E-1199
- 防火性能：符合歐洲防火泥EN13634 (2hr耐火 T Rating/ 隔熱 H Rating)的防火認證標準
- Standard Qualification: CNS-14514 certification standard. Complies with U.S. fire regulations ASTM E-814 (with UL-1479 and ASTM E-1199)
- Fire resistant (per Penetration fire prevention test, CNS 13634) (per fire resistance) (Rating) (cover flame T Rating) fire prevention certification standards.

**施工方式 METHOD OF USE**

- 施工之前必須先將孔洞內灰塵、油膩、碎屑等清除，用刮刀刮乾淨，並用布擦乾或吹乾。
- 凝固型膨脹防火泥混合後，應儘速填塞於孔洞，用抹刀抹平即可。

Before filling, the hole must be cleaned of all dust, silt and debris, and wiped clean with a damp cloth. After the surface is cleaned and dried, it can then be filled.

When installing, fill in solidifying type expansion fire prevention filler to the desired thickness and smooth out.

**儲存 STORAGE**

建議儲存於通風乾燥陰涼處，儲存溫度 10℃~35℃，避光存放。

Recommend storing indoors in a ventilated, shady and dry area. Storage temperature is 10°C~35°C to prevent dampening.



凝固型防火泥 KT-1003 粉劑

凝固型防火泥 KT-1003 粉劑

凝固型防火泥 KT-1003 溶剂

凝固型膨脹防火泥 KT-1005 粉劑

凝固型膨脹防火泥 KT-1005 粉劑



## NON-SOLIDIFYING TYPE FIRE RESISTANT FILLER 非凝固型防火泥 KT-1002 2kg

### 使用範圍 USE

KT-1002非凝固型防火泥主要成分為優質分子級矽膠填料，具有一系列獨特物理屬性。遇火後，能形成堅韌與耐火之耐火阻礙材料，適用於管井縫填塞、電線槽填塞、電氣櫃填塞、門窗填塞等之用途。可建築橋樑、金庫、監獄、軍用、民運、醫院等建築之用途。使非凝固型防火泥(KT-1002)能在被阻礙火災發生時能及阻礙火災蔓延，阻礙火災蔓延。該產品施工方便，以單手塗抹或灌輸管槽等品，一般可與其他建築材料(如紅磚灰水等)混合使用。

KT-1002 non-solidifying type fire resistant filler mainly composed of organic polymer materials, it has a certain flexibility and flexibility. When in contact with fire, it can form a coating solid and effective insulating fire-resistant filler. It is suitable as building conduit, penetration fire-resistant sealant and filler. For floors and wall joints, pipe joints, metal piping, plastic piping, air ducts, wiring conduits, air conditioning ducts opening penetration, using non-solidifying type fire resistant filler (KT-1002) can effectively prevent flames and toxic smoke from spreading, reducing the spread and expansion of fire. This product is convenient to use, in order to easily increase or decrease filling thickness. Meanwhile, it can be used with other filler materials (such as fire-resistant packing) if needed in use.

### 產品特性、規格 PRODUCT FEATURES, SPECIFICATIONS

- 規格：20kg/箱
- 顏色：鮮紅色
- 耐火標準：≥ 2H(T Rating/ F Rating)
- 氣密性：>50
- 總密度：<80
- 流動易鋪抹
- 施工簡單、易塗抹法
- 高粘結性、耐火性優
- 無毒無味無煙
- 不含石棉、無毒無害物質
- Specification: 20kg / box
- Color: main red
- Fire resistance limit: ≥ 2H(T Rating/ F Rating)
- Oxygen index: ≥ 50
- Smoke density: <80
- Expands when heated
- Simple to use, good elasticity
- High adhesiveness, strong fire resistance
- Non-toxic, odorless
- Does not contain asbestos, toxic halogen



非凝固型防火泥 KT-1002  
錫膠團

### 防火性能 FIRE PERFORMANCE

- 符合標準：CNS-14514耐火標準，符合美國防火法ASTM E-814(UL-1479及ASTM E-119)
- 耐火標準：符合耐火試驗CNS 14514 (2hr) (AT Rating/ 耐火F Rating) 的防火阻礙標準。
- Standard Qualification: CNS-14514 certification standard, comply with U.S. fire regulations ASTM E 814 with UL 1479 and ASTM E 119.
- The resistant fire penetration test (CNS 14514) (FIR) (thermal resistance) (F Rating) (cover flame) (Rating) fire penetration certification standards.

### 施工方式 METHOD OF USE

- 施工之前須先將孔洞及管溝、溝槽清理乾淨，用填塞材料填塞，修補漏管等予以施工。
- 可直接將非凝固型防火泥塗抹於孔洞中，如孔洞較大，可用耐火泥填塞後，再增加塗抹厚度。
- 施工期間應注意，先將塗抹表面溫度降至低於 40℃~70℃ 溫度中加塗後，再塗抹塗抹塗抹。
- Before filling, the hole must be cleared of all dust and debris, and wiped clean with a damp cloth. All air the surface is cleaned and dried, it can be filled directly to hole. If the hole is larger, the resistant filler can be used to make a frame to increase support strength.
- If the temperature is low during the period of use, the package of non-solidifying type fire resistant filler can be immersed in 40℃~70℃ warm water to heat up. Once it has softened, it can be used.

### 備註 REMARK

建議儲存至多為幾個月後，以其為其存儲期限。10℃~35℃，避光乾燥。  
Recommended storing indoors in a ventilated, shady, and dry area. Storage temperature is 10℃~35℃ to prevent dampening.



非凝固型防火泥 KT-1002

## FIRE RESISTANT PACKING 阻燃防火包 KT-2005 380g / 700g

### 使用範圍 USE

KT-2005阻燃防火包全部由纖維系特種纖維材料製成，內部係由防火纖維材料製成，具有防火及阻煙效果施工方便。遇火阻燃防火包內防火纖維材料能吸收熱能，能阻煙阻火阻煙阻火阻煙之作用。適用於管井縫填塞、電線槽填塞、電氣櫃填塞、門窗填塞等之用途。使非凝固型防火泥(KT-1002)能在被阻礙火災發生時能及阻礙火災蔓延，阻礙火災蔓延。該產品施工方便，以單手塗抹或灌輸管槽等品，一般可與其他建築材料(如紅磚灰水等)混合使用。

The exterior of the KT-2005 fire resistant packing is made from lightly woven specialty resin fiber glass fabric. The interior is made from fire and heat-resistant fibers which have the ability to resist fire and smolder effects and is easy to use. When met with fire, the fire and heat-resistant material in the packing will quickly expand and flexibly and effectively block all holes and cracks. It is mainly suitable for installing conduit penetration fire-resistant sealant in cable, floor board and wall panels, cable trays, fire door piping, plastic piping, air ducts, with concrete, air conditioning duct opening penetration, using fire resistant packing (KT-2005) can effectively prevent flames and toxic smoke from spreading, reducing the spread and expansion of fire. Using fire resistant packing as filler can effectively prevent fire, resist smoke, rock, etc. In comparison, fire resistant packing has significantly more insulation and fire-resistant effects.

### 產品特性、規格 PRODUCT FEATURES, SPECIFICATIONS

- 規格：700g/包，380g/包(120g)
- 氣密性：>50
- 總密度：<80
- 耐火標準：≥ 2H(T Rating/ F Rating)
- 施工簡便、易易塗抹、可重復使用
- 不含石棉、無毒無害物質
- 無粉塵性物質
- Specification: 700g / bag, 380g / bag(120g)
- Oxygen index: ≥ 50
- Smoke density: <80
- Fire resistance limit: ≥ 2H(T Rating/ F Rating)
- Easy to use, easy removal, and reusable
- Does not contain asbestos, toxic halogen
- Non-volatile substance



阻燃防火包 KT-2005  
產品錫膠團

### 防火性能 FIRE PERFORMANCE

- 符合標準：CNS-14514耐火標準，符合美國防火法ASTM E-814(UL-1479及ASTM E-119)
- 耐火標準：符合耐火試驗CNS 14514 (2hr) (AT Rating/ 耐火F Rating) 的防火阻礙標準。
- Standard Qualification: CNS-14514 certification standard, comply with U.S. fire regulations ASTM E 814 with UL 1479 and ASTM E 119.
- The resistant fire penetration test (CNS 14514) (FIR) (thermal resistance) (F Rating) (cover flame) (Rating) fire penetration certification standards.

### 施工方式 METHOD OF USE

- 施工之前須先將孔洞內灰塵、碎渣清理乾淨，用填塞材料填塞，修補漏管等予以施工。
- 施工時，將防火包平鋪於管井開口處，並裝設膠帶即可。
- Before filling, the hole must be cleared of all dust and debris, and wiped clean with a damp cloth.
- When using, place the fire-resistant packing in the penetration opening and stick firmly together.

### 儲存 STORAGE

建議儲存至多為幾個月後，以其為其存儲期限。10℃~35℃，避光乾燥。  
Recommended storing indoors in a ventilated, shady, and dry area. Storage temperature is 10℃~35℃ to prevent dampening.



阻燃防火包 KT-2005



**BUILDING ON STRENGTH**  
 THE BEST QUALITY  
 THE BEST RESPONSE  
 TO OUR CUSTOMERS' NEEDS

## COMBUSTION PROOF FIRE RESISTANT SLEEVE 阻燃防火管套 KT-5008

### 使用範圍 USE

阻燃防火管套(KT-5008)係由外層為鍍錫金屬材質，內層為纖維氈層經壓克力膠黏合而成之防火管套。方便安裝於各種不同尺寸之塑膠管、管上，並能固定膠黏劑之厚薄。此管套安裝於管上，當遇火災發生時，管套內之防火材料會膨脹收緊，緊密包裹管身，有效阻斷火源之蔓延，並在表面形成一層高耐火度之保護層，阻絕火氣與煙毒等氣體之蔓延與擴散。

Combustion proof fire resistant sleeve (KT-5008) is made from an exterior of corrosion resistant metal shell and an interior of expanding combustion proof fire resistant material to form a fire resistant fitting. It is simple to use on a variety of different size plastic piping and for fixing floor or wall penetrations. If there is a fire, the fire resistant material in the sleeve will quickly expand, squeezing into the pipe's crevice and effectively sealing cracks within the plastic joints. The sleeve will form a dense carbon protective layer and effectively prevent flames, smoke, and poisonous gas from spreading through the penetration.

### 儲存 STORAGE

請將管套存放於陰涼乾燥處。  
 Recommend storing indoors in a ventilated, shady, and dry area.



### 產品特性 PRODUCT FEATURES, SPECIFICATIONS

- 耐火等級：≥ 2h(T Rating)
- 厚度：標準型 ≥ 20mm
- 溫度：≤ 150℃
- 施工簡便，安裝迅速。
- 耐腐蝕，耐酸鹼。
- 無塵低煙。
- 標準規格：2" 3" 4" 5" 6"
- 耐火等級：≥ 2h(T Rating/F Rating)
- 膨脹率：當溫度超過 100℃ 時 ≥ 20 times
- 煙氣密度：< 15
- 簡單易用，安裝迅速。
- 高溫度、耐熱、耐濕、耐腐蝕。
- 耐化學腐蝕。
- 耐火等級：≥ 2h(T Rating/F Rating)
- 煙氣密度：< 15

### 防火性能 FIRE PERFORMANCE

- 符合性：CNS-14514 認證標準，符合美國防火規範 ASTM E-814、UL-1470 及 ASTM E-119。
- 防火類別：符合美國防火規範 CNS-14514 (2h) 阻燃(T Rating) 防火認證標準。
- Standard Qualification: CNS-14514 certification standard. Complies with U.S. fire regulations ASTM E-814 (with UL-1470 and ASTM E-119).
- Fire resistant limit: Non-combustion fire prevention test CNS-14514 (2h) Thermal resistance T Rating / cover flame F Rating fire prevention certification standards.

## CERAMICS FIBER 陶瓷纖維棉 KT-4007

### 使用範圍 USE

陶瓷纖維棉是由氧化鋁、氧化矽、氧化鉻等物經高溫熔融及纖維化而製成纖維。

Ceramic fiber cotton is made from aluminum oxide, zirconium oxide, silica and other substances mixed together, then melt and draw into fibers to form fiber.

### 產品特性 PRODUCT FEATURES, SPECIFICATIONS

- 密度：130 ± 10% kg/m<sup>3</sup>
- 耐火溫度：≥ 1200℃ (短期最高 1300℃ ± 10%)
- 耐腐蝕、耐化學性
- 加工性能優良
- 耐高溫、耐氧化
- 耐火等級：≥ 2h(T Rating/ F Rating)
- 使用溫度：≥ 1200℃
- Density: 130 ± 10% kg/m<sup>3</sup>
- Thermal conductivity: < 0.16W/m.k (average temperature 600 to 1100℃)
- High temperature resistance, chemical resistance
- Excellent processing performance
- Capable of acute bending and auto-curing
- Fire resistance limit: ≥ 2h(T Rating/ F Rating)
- Operating temperature: ≥ 1200℃



### 應用範圍 APPLICATIONS

適用於電線、電纜、鋼管、鋼管、鋼管及鋼管之保護及防火。適用於：煙囪、爐管、爐管及鋼管之保護及防火。適用於：煙囪、爐管、爐管及鋼管之保護及防火。適用於：煙囪、爐管、爐管及鋼管之保護及防火。

Used for fire prevention fittings for cables, metal pipes, flange, pipes, ducts, and gas to protect walls and doors in the building. (Preventing coating the furnace, oil line inner fire proof sleeve tubing) Insulation, and can be used in oil well. Non-toxic and safe fire resistant filter or filtering type fire resistant filter. Before use, the role must be cleaned of dust, grease, and debris. Use a clean cloth to wipe clean, and install after drying and dust-free.



## COMBUSTION PROOF FIRE RESISTANT BOARD 阻燃防火板 KT-3006

### 使用範圍 USE

KT-3006阻燃防火板係由矽石、防火纖維與矽酸鈣纖維，並加入一種有機不燃材料，經多次與火焰熱電能及機械衝擊試驗，經耐火試驗通過。主要應用於建築內阻燃防火板及各種建築材料。如：樓梯間阻燃防火板、配電室阻燃防火板、金屬管、線管、電管、配管等，並適用於其他建築、防火牆、防火板等。如：隔間防火板(KT-1003)、非隔間防火板(KT-1002)、瓷磚牆面防火板(KT-1005)、阻燃防火板(KT-2005)等，用於建築工程。



KT-3006 combustion proof fire resistant board is made with silica, fibreglass fiber, and calcium silicate, and is an inorganic non-combustible material. It can effectively prevent flames from instantaneously expanding and prevent smoke and poisonous gases from spreading, reducing the spread of the fire. It is mainly suitable as walling panels, partitions, fire resistant ceiling and floor. For floors and wall panels, cable trays, metal piping, ductwork, air ducts, wiring conduits, wiring conduits, opening penetrations, etc. Normally, it can be used with non-toxic fire resistant filler (KT-1005). Non-soluble fire resistant filler (KT-1006). Solubility type expansion fire resistant filler (KT-1006). Fire resistant plaster (KT-2006). Segregation of oil is better.

### 產品特性 PRODUCT FEATURES, SPECIFICATIONS

- 施工簡易，容易修補，可重複使用
- 不含石棉等有害物質
- 具優異性物理
- 厚度：100mm至1000mm(1-10cm)
- 耐火等級：A2(UL Rating/ F Rating)
- Easy to use, easy repair, and reusable
- Does not contain asbestos, toxic halogen
- Non-toxic substances
- Size: 1100mm x 1100mm x 10mm
- Lives resistance limit: A2 (UL Rating/ F Rating)

### 儲存 STORAGE

建議儲存室內避濕乾燥處。  
Recommend storing indoors in a ventilated, shady and dry area.

### 防火性能 FIRE PERFORMANCE

- 符合標準：CNS-4514耐火標準。符合美國防火法典 ASTM E-814(UL-1479)及ASTM E-119。
- 防火等級：美國防火法典CNS 14514 (2hr) (UL Rating/ 國際F Rating)的防火等級標準。自燃防火板CNS 14705(國家二級)防火等級標準。
- Standard Qualification: CNS-4514 certification standard. Comply with U.S. fire regulations ASTM E-814 (with UL-1479 and ASTM E-119).
- Fire resistance level: American fire prevention code CNS 14514 (2hr) (UL Rating/ international F Rating) fire prevention certification standards. Combustion proof fire resistant board: CNS 14705 (level 2) fire resistance certification standards.

### 施工方式 METHOD OF USE

施工時，將防火材料半部於牆面開口處，與鋼構面平齊，之後將預埋防火板切好之板塊尺寸，套準後再螺絲釘入即可。

When using, place the resistant material in the opening and press tightly together. Then trim the fire-resistant board to the right size for the opening and screw it in place.

## GLOBALIZATION

WE DISTRIBUTE INTERNATIONALLY

### CERTIFICATE 檢驗證書

