

德美  防火

大国重器 · 坚固火盾
德美防火 · 享誉全球

Great Power Heavy Weapon Solid Fire Shield
German and American fire protection, world-renowned

德美
防火材料

以德为标准 以美为天下
Take morality as the standard and beauty as the world

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检验单位: 国家固定灭火系统和耐火构件质量监督检验中心
查询网址: www.cncf.com.cn

Approved by: Emergency Management Department Fire Product Conformity Assessment Center
Inquiry website: www.cccf.net.cn
Inspection unit: National Center for Quality Supervision and Inspection of Fixed Fire Extinguishing
Systems and Refractory Components
Inquiry website: www.cncf.com.cn

廊坊德美化工防火材料有限公司
LANGFANG DEMEI CHEMICAL FIREPROOF MATERIAL CO., LTD.

德美 防火

Master thought is visionary
Global, strategic view can be remarkable

思想集大成者，乃能高瞻远瞩，
谋略观全局者，方能成就非凡。



德美安防 平安天下

推进城市文明的进程

Promote the process of urban civilization

大国重器 千锤百炼 与时俱进 改革创新

以德为标准 以美为天下

铸造民族品牌 传承工匠精神

以匠心守初心 铸就防火行业领军品牌

Great powers are heavy weapons, and they are constantly tempered, advancing with the times, reforming and innovating

Take virtue as the standard and beauty as the world

Casting a national brand and inheriting the spirit of craftsmen

Keep the original intention with ingenuity and create a leading brand in the fire protection industry

MESSAGE FROM THE CHAIRMAN 董事长致辞

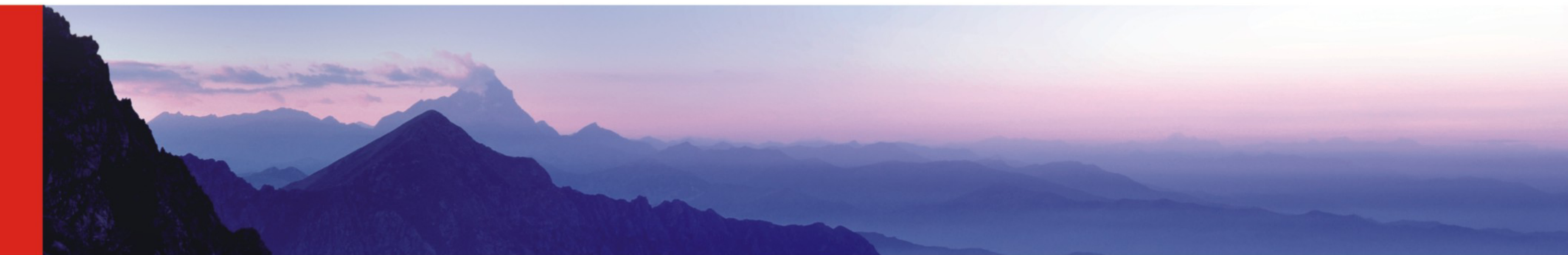


德美公司在发展的道路上,秉承“以科技为先导、以创新求发展、以质量求生存、以诚信待客户”的企业精神,实行“人才为本,科技领先,用户至上”的经营理念,并得到各级领导和各界人士的大力支持和帮助。面对日新月异的发展形势和复杂多变的市场环境,我们要不断提升公司的核心竞争力和可持续发展能力,把德美打造成为国内知名,且有较强国际竞争力的现代企业集团,为社会为客户提供更加优良的产品,更加优质的服务,为经济社会发展做出新的更大贡献。

精雕细作,我们脚踏实地;胸怀天下,我们志存高远。立足河北,辐射全国,放眼全球。面对未来,我们只有一个目标:通过自身的实力和对社会的贡献,用“诚信和品质”塑造中国防火产业的卓越品牌,让防火产业享誉国际!

On the road of development, Demei Company adheres to the enterprise spirit of "taking science and technology as the guide, seeking development with innovation, seeking survival with quality, and treating customers with integrity", and implements the business philosophy of "talent-oriented, technology-leading, customer-oriented", and received strong support and help from leaders at all levels and people from all walks of life. Faced with the ever-changing development situation and the complex and ever-changing market environment, we must continuously improve the company's core competitiveness and sustainable development capabilities, and build Demei into a well-known domestic and modern enterprise group with strong international competitiveness. The society provides customers with better products and better services, and makes new and greater contributions to economic and social development.

Carefully crafted, we are down-to-earth, with the world in mind, we aim high. Based in Hebei, radiating the whole country and looking globally. Facing the future, we only have one goal: through our own strength and contribution to the society, we will use "integrity and quality" to shape the excellent brand of China's fire protection industry, and make the fire protection industry famous internationally!





DEVELOPMENT PATH 发展历程

公司愿竭诚与全体同仁和各界朋友携手，
继续为中国防火来增砖添瓦，为广大用户提供优质服务。

The company is willing to join hands with all colleagues and
friends from all walks of life wholeheartedly, Continue to add
bricks and mortar to China's fire protection and provide quality
services for the majority of users.

▼ 1990
德美公司前身
龙兴建材厂成立

▼ 2008
正式挂牌改为
德美公司

▼ 2009
通过质量管理
体系认证

▼ 2010
与各大研究院合作

▼ 2015
国家高新技术产品
国家产品专利

▼ 2019
河北防火行业十强企业
中国防火知名品牌

▼ 2021
聚焦化工与防火
核心业务

▼ 2022
大展宏图 未来可观

ENTERPRISE

德美防火·享誉全球
Demei fireproof · world-renowned

ENTERPRISE INTRODUCTION 企业简介

廊坊德美化工防火材料有限公司，是专业生产环境污染处理剂、工业水处理药剂、防火材料于一体的大型生产公司，是集科研开发、生产、销售、服务于一体的技术型企业。企业注册资金8680万元，德美公司以“提供有竞争力的水处理、防火工程解决方案和服务，为客户创造质量、安全、环保的工程系统”为企业使命，“以德为标准，以美为天下”是德美公司的企业宗旨。

公司划分防火材料A区和化工产品B区，设有技术部、生产部、质检部、企管部、售后服务部、营销部、市场部、财务部、人力资源部，通过了ISO9001：2000质量管理体系认证，严格的质量体系保证了德美产品的高质量及高稳定性，受到客户的一致认可和好评。并且是中华人民共和国公安部消防产品合格评定中心注册企业，防火园区现有5大系列22个品种，是国内消防行业产品较齐全的一家公司，公司产品包括阻火包、柔性有机堵料、无机防火堵料、无机防火隔板、膨胀型防火密封胶、弹性防火密封胶、阻火模块、防火涂层板、隧道防火涂料、电缆防火涂料、饰面型防火涂料、室内钢结构防火涂料、室外钢结构防火涂料、防火硅胶布、防火布等，以上产品均通过国家强制性产品认证3C认证。产品性能指标均达到或超出有关标准规定，处国内领先水平，严格遵循GB23864-2009防火封堵材料、GB28374-2012电缆防火涂料、GB28375-2012隧道防火涂料、GB12441-2018饰面型防火涂料、GB14907-2018室内钢结构防火涂料国家执行标准。

其防火材料产品已销往国内港澳台外的所有省份，并出口到印度、缅甸、越南、俄罗斯、菲律宾、埃塞俄比亚、伊拉克、印尼、乌兹别克斯坦、安哥拉、津巴布韦等国外大型项目并取得良好的业绩及较好的口碑。由于该系列产品是一种高性能，多用途的产品，广泛应用于：电厂、工矿、机场、石化、体育场、商业广场、工业厂矿、电信、民用建筑、造船业、大型钢结构、化工、冶金、剧院、军工等各行业领域。

多项产品获得国家建筑协会推荐产品，燃烧性能A级检测，本公司拥有自主专利权专利产品三十余项，产品广泛用于工矿企业、高层建筑、冶金、电力、造船、军工等众多领域。德美公司不但为用户提供优质价廉的高科技产品，而且还为用户提供优质周到的售前、售中、售后服务。作为科技环保新时代的先锋，德美一贯坚持“质量保障，信誉至上，用科技服务人类”的宗旨，愿竭诚为广大客户提供专业服务，迎接各界人士多方合作，共创明天！

Langfang Demei Chemical Fireproof Material Co., Ltd. is a large-scale production company specializing in the production of environmental pollution treatment agents, industrial water treatment agents, and fireproof materials. It is a technology-based enterprise integrating scientific research, development, production, sales and service. The registered capital of the enterprise is 86.8 million yuan. The company's mission is to "provide competitive water treatment and fire protection engineering solutions and services, and create quality, safe and environmentally friendly engineering systems for customers". Beauty is the world" is the corporate tenet of Demei.

The company divides the fireproof material area A and the chemical product area B, and has the technical department, the production department, the quality inspection department, the enterprise management department, the after-sales service department, the marketing department, the financial department, the human resources department, and has passed the ISO9001: 2000 quality Management system certification and strict quality system ensure the high quality and high stability of Demei products, which are unanimously recognized and praised by customers. And it is a registered enterprise of the Fire Protection Product Conformity Assessment Center of the Ministry of Public Security of the People's Republic of China. There are 5 series and 22 varieties in the fire protection park. It is a company with a relatively complete range of products in the domestic fire protection industry. Fire blocking material, inorganic fire barrier, intumescent fireproof sealant, elastic fireproof sealant, fire retardant module, fireproof coating board, tunnel fireproof coating, cable fireproof coating, decorative fireproof coating, indoor steel structure fireproof coating, outdoor Steel structure fireproof coating, fireproof silicone cloth, fireproof cloth, etc. The above products have passed the national compulsory product certification 3C certification. The product performance indicators all meet or exceed the relevant standards and regulations, and are at the leading domestic level. They strictly follow GB 23864-2009 fire blocking materials, GB 28374-2012 cable fireproof coatings, GB 28375-2012 tunnel fireproof coatings, GB 12441-2018 decorative fireproof coatings, GB 14907-2018 National Executive Standard for Indoor Steel Structure Fireproof Coatings.

Its fireproof material products have been sold to all provinces outside Hong Kong, Macao and Taiwan, and exported to India, Myanmar, Vietnam, Russia, the Philippines, Ethiopia, Iraq, Indonesia, Uzbekistan, Angola, Zimbabwe and other large foreign projects and achieved good performance and good reputation. Because this series of products is a high-performance, multi-purpose product, it is widely used in: power plants, industrial and mining, airports, petrochemicals, stadiums, commercial plazas, industrial factories and mines, telecommunications, civil construction, shipbuilding, large steel structures, chemicals, metallurgy, theater, military and other industries.

A number of products have been recommended by the National Construction Association, and the combustion performance has been tested at A-level. The company has more than 30 independent patented products. The products are widely used in industrial and mining enterprises, high-rise buildings, metallurgy, electric power, shipbuilding, military and many other fields. Demei not only provides users with high-quality and low-cost high-tech products, but also provides users with high-quality and thoughtful pre-sale, in-sale and after-sale services. As a pioneer in the new era of science and technology and environmental protection, Demei has always adhered to the tenet of "quality assurance, credibility first, and technology to serve mankind", and is willing to wholeheartedly provide professional services to our customers, welcome people from all walks of life to cooperate with each other, and create a better tomorrow!



Strive to build scientific engineering, detail specialization,
and management modernization
A fire-resistant chemical enterprise with maximum benefits

**努力打造工程科学化、细节专业化、管理现代化
效益最大化的防火化工企业**

德美防火·享誉全球
Demei fireproof · world-renowned



Integrity and innovation are eternal; quality and character
are together

诚信、创新永恒；精品、人品同在



荣耀在身后，梦想在前方；荣誉给予企业的，是责任与力量。
 Glory behind,dream ahead;Given the honor Qiye,is the responsibility and power.

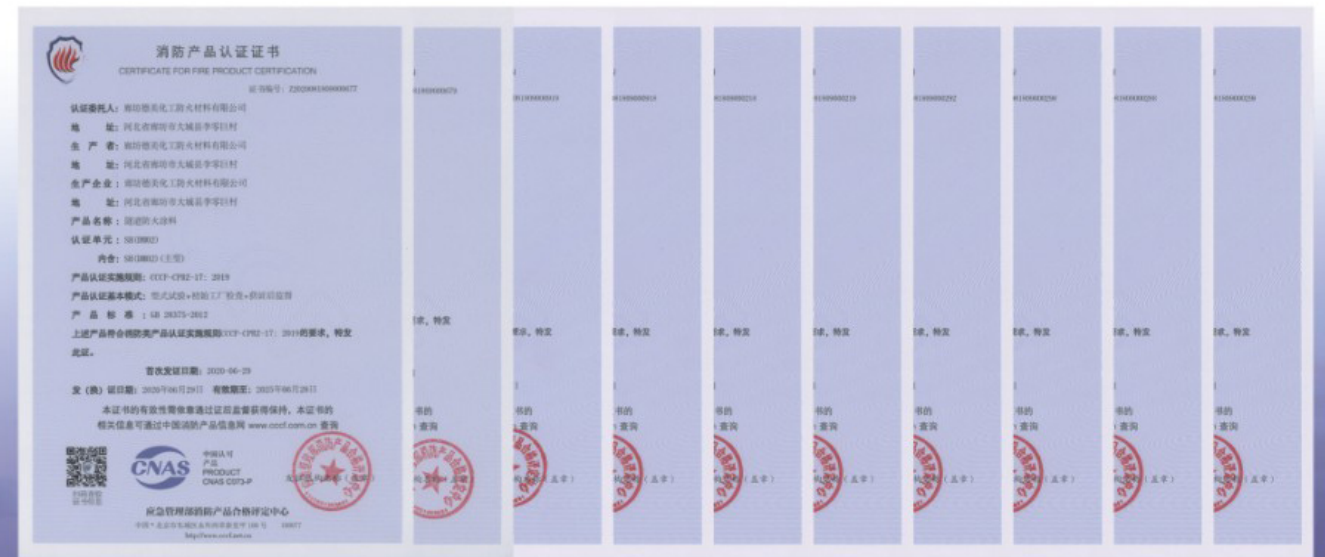
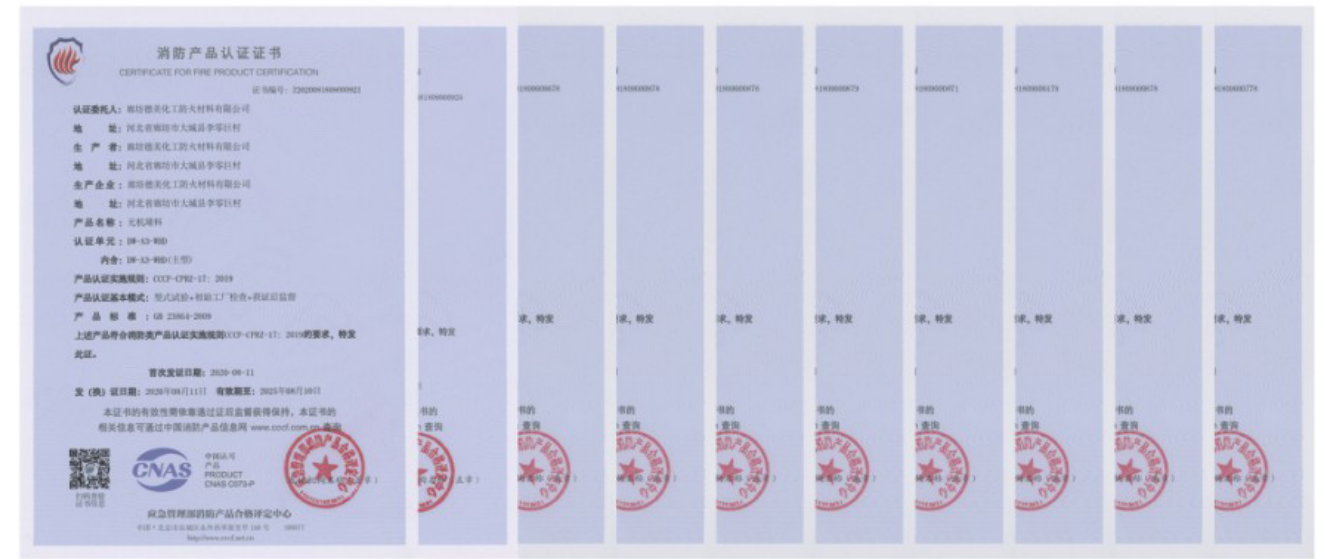
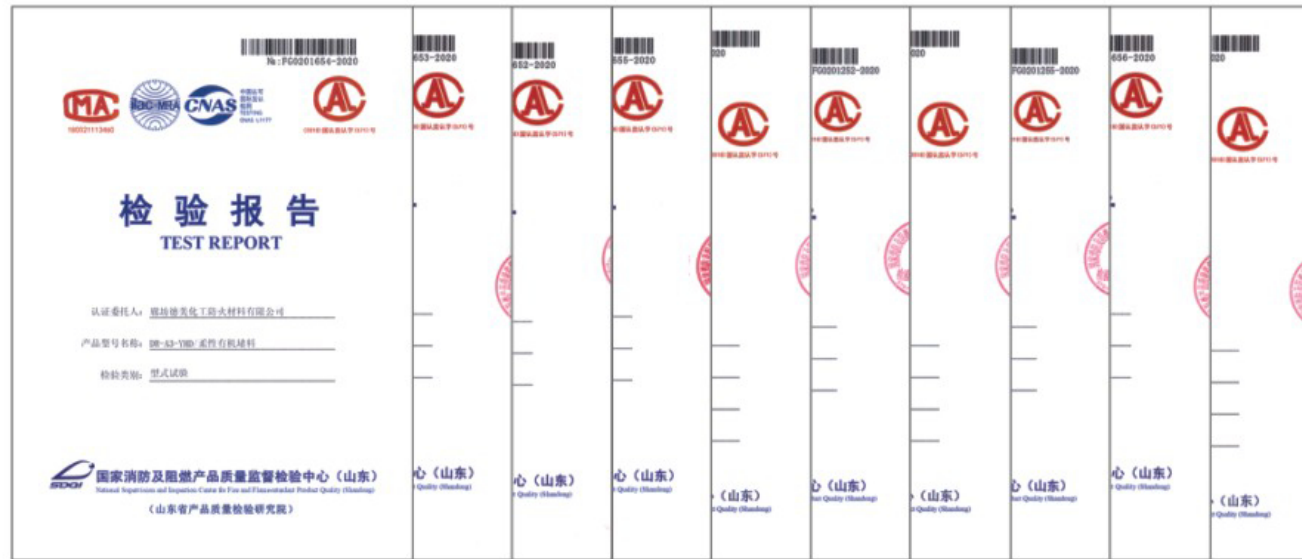
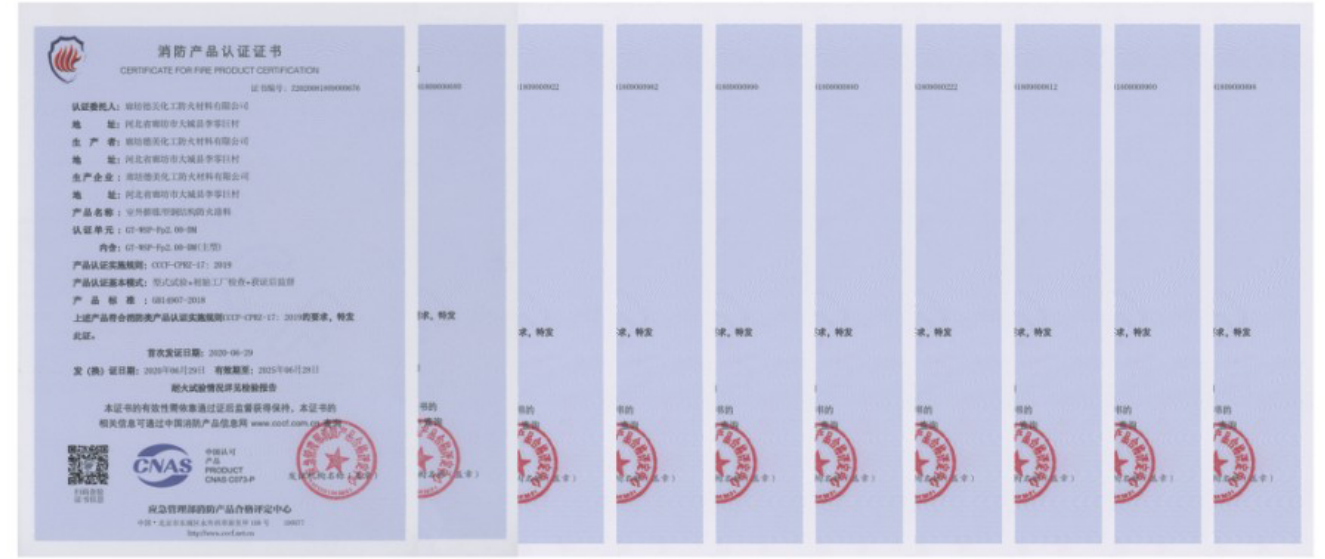


CORPORATE HONOR

荣誉资质

市场竞争不同情弱者，要不断创新突破，迎接变化，勇于创新
 Market competition is not sympathetic to the weak, we must continue to innovate and make breakthroughs, embrace changes, and be brave in innovation





德美 AA 防火

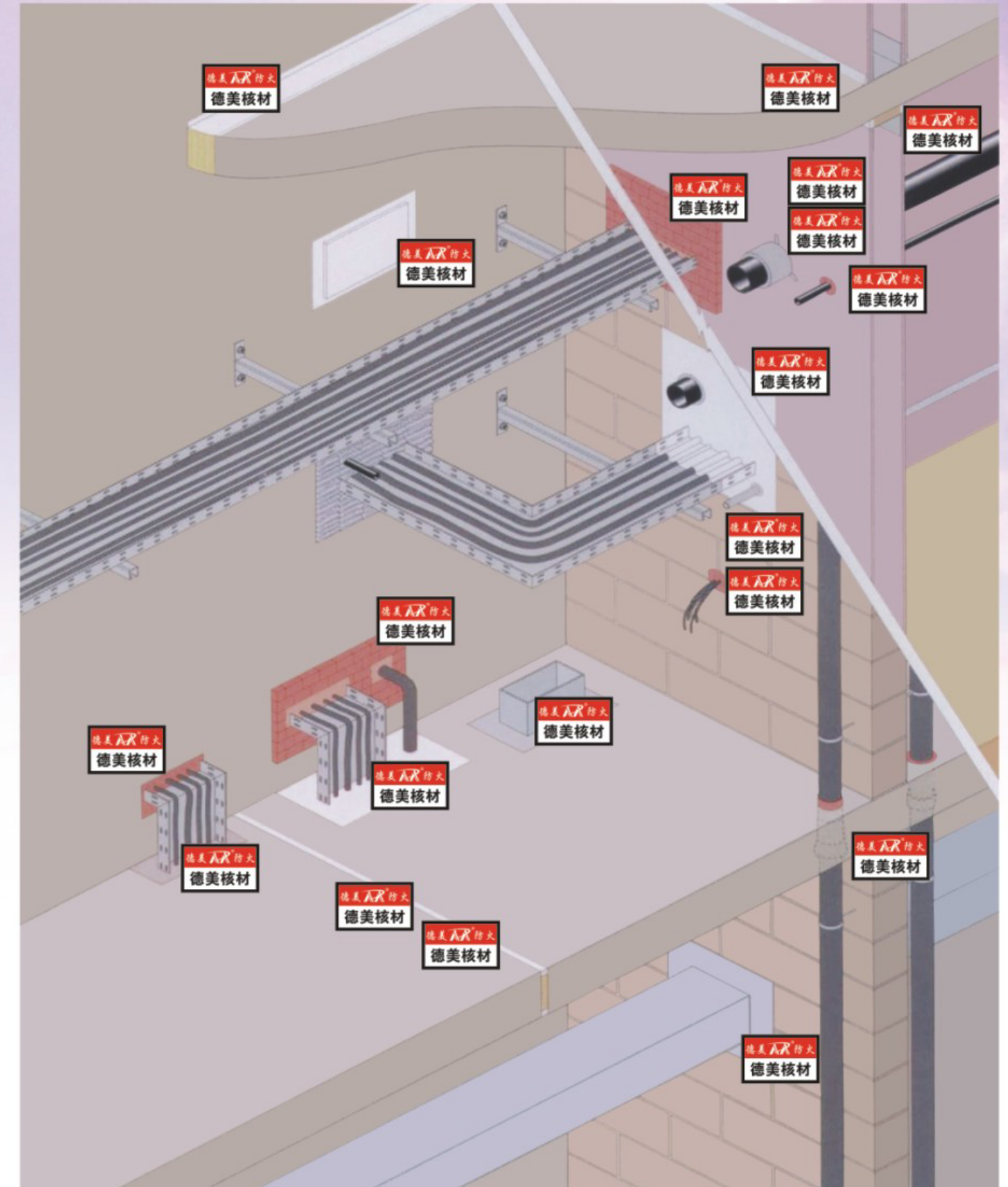
部分优质合作单位

Some high-quality cooperative units



NO MATTER WHERE YOU ARE IN THE BUILDING, THE GERMAN AND AMERICAN FIRE PROTECTION SYSTEM IS YOUR GUARANTEE OF SAFETY AND TRUST

无论在建筑的哪个部位，德美防火系统是您安全和信任的保证



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55-60

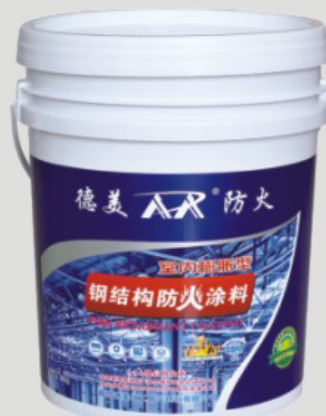
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GT-NSP-Fp1.00-DM-801 1.6mm | GT-NSP-Fp2.50-DM-808 4.0mm

室内膨胀型钢结构防火涂料（水基型）

产品介绍

本防火涂料是一种水性膨胀型防火涂料，该涂料具有层薄、粘结度高等特点。本涂料刷在钢结构表面时可起到防火、防腐作用、遇火时涂层表面迅速膨胀，形成均匀致密的防火隔热层，从而达到对钢结构的防火保护作用。
执行标准：GB14907-2018



应用范围

广泛应用于各类工业厂房、体育馆、飞机场、展览馆、商贸大厦等钢结构建筑物的防火保护，提高钢结构的耐火极限，满足建筑设计防火规范要求。

施工方法

- 1、施工前对钢结构件表面彻底除尘防锈。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
- 3、涂料开盖后，应先用电动工具搅拌均匀，经充分搅拌再进行施工，涂层应能流平且不流挂为准。施工时如发现涂料过稠时，可加入适量水稀释，充分搅拌均匀方可施工。
- 4、涂料施工以喷涂为宜，涂层厚度应控制在0.2mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
- 5、涂层未干透前，禁止水中雨淋。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防冻。

INDOOR EXPANSION TYPE STEEL STRUCTURE FIREPROOF COATING (WATER-BASED)

Product Description

This fireproof coating is a water-based intumescent fireproof coating, which has the characteristics of thin layer and high cohesion. The paint brush can play the role of fire prevention and anti-corrosion on the surface of the steel structure, and the surface of the coating expands rapidly in case of fire to form a uniform and dense fire-proof and heat-insulating layer, so as to achieve the fire protection effect of the steel structure.

Executive standard: GB14907-2018

Scope of application

It is widely used in the fire protection of steel structure buildings such as various industrial plants, gymnasiums, airports, exhibition halls, commercial buildings, etc., to improve the fire resistance limit of steel structures and meet the requirements of architectural design fire protection specifications.

Construction Method

1. Thoroughly remove dust and rust from the surface of the steel structure before construction.
2. The construction should be at a temperature (5-35) °C, and the relative humidity should be controlled within 80%. The steel structure should not be operated due to condensation, frost and water droplets on rainy days. The construction process should avoid rain and exposure. The curing time should be prolonged for yellow mold days.
3. After the coating is opened, it should be stirred evenly with an electric tool, and then the construction should be carried out after sufficient stirring. The coating should be able to level and not sag. If the paint is found to be too thick during construction, it can be diluted by adding an appropriate amount of water and mixing well before construction.
4. The coating application should be sprayed, and the thickness of the coating should be controlled at about 0.2mm/pass, subject to no sagging, and the next coating can be done after the coating surface is dry.
5. Before the coating is completely dry, it is forbidden to wash with water and rain.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35°C, and it should be stored in a cool, ventilated and dry environment. Protect from rain, exposure and frost.

GT-NRP-Fp1.00-DM-801 1.6mm | GT-NRP-Fp2.50-DM-808 4.0mm

室内膨胀型钢结构防火涂料（溶剂型）

产品介绍

本钢结构防火涂料由多种树脂及 N-P-C 阻燃剂体系原料及颜填料、助剂组成。涂层遇火迅速变软，继而发泡、膨胀形成致密的隔热层，以阻止火势蔓延及辐射热量，从而提高钢结构的耐火极限。

执行标准：GB14907-2018

应用范围

适用于一般工业、及民用建筑、高层建筑、酒店、文化娱乐场所等建筑的钢结构上，起到防火保护作用。



施工方法

- 1、对钢构件表面彻底除尘防锈，在底漆实干后再涂刷涂料。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
- 3、涂料开盖后、应先用电动工具搅拌均匀，经充分搅拌再进行施工，涂层应能流平且不流挂为准。施工时如涂料过稠，可加入适量配套稀释剂（不得超过1%），充分搅拌均匀方可施工。
- 4、涂料施工可采用辊涂、刷涂及喷涂法，但以喷涂为宜，涂层厚度应控制在0.2mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
- 5、涂层干透前，禁止水中雨淋。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防明火。

INDOOR EXPANSION TYPE STEEL STRUCTURE FIREPROOF COATING (SOLVENT TYPE)

Product Description

This steel structure fireproof coating is composed of a variety of resins and N-P-C flame retardant system raw materials, pigments, fillers, and additives. The coating quickly softens when exposed to fire, and then foams and expands to form a dense insulation layer to prevent the spread of fire and radiate heat, thereby increasing the fire resistance limit of the steel structure.

Executive standard: GB14907-2018

Scope of application

It is suitable for steel structures of general industry, civil buildings, high-rise buildings, hotels, cultural and entertainment places, etc., and plays a role in fire protection.

Construction Method

1. Thoroughly remove dust and rust on the surface of steel components, and apply paint after the primer is completely dry.
2. The construction should be at a temperature (5-35) °C, and the relative humidity should be controlled within 80%. The steel structure should not be operated due to condensation, frost and water droplets on rainy days. The construction process should avoid rain and exposure. The curing time should be prolonged for yellow mold days.
3. After the coating is opened, it should be stirred evenly with an electric tool, and the coating should be able to level and not sag before construction. If the paint is too thick during construction, add an appropriate amount of supporting diluent (not more than 1%), and mix well before construction.
4. The coating construction can be carried out by roller coating, brushing and spraying, but spraying is suitable, and the thickness of the coating should be controlled at about 0.2mm/pass, whichever does not sag, and the next pass can be carried out after the coating surface is dry. painted.
5. Before the coating is completely dry, it is forbidden to shower with water and rain.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35°C, and it should be stored in a cool, ventilated and dry environment. Protect from rain and sun and open flames.

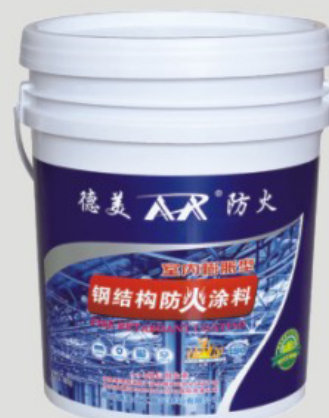
GT-NSP-Ft1.00-DM-801 1.6mm | GT-NSP-Ft2.50-DM-808 4.0mm

室内膨胀型钢结构防火涂料（特种水基型）

产品介绍

室内膨胀型钢结构防火涂料（特种水基型）一般适用于化工厂中的钢结构檩条、钢梁等部位。该种涂料适用于烃类（HC）火灾升温条件中。并具有优良的理化性能，干燥快、抗潮、抗酸碱、耐火性好等特点。

执行标准：GB14907-2018



应用范围

本产品可广泛用于石化、石油、工业钢结构厂房、大型船舶、体育场馆、候机楼、管道、高层建筑等对耐火时间要求高，装饰性要求高的钢结构的防火保护。

施工方法

- 1、施工前检查防腐涂层的完整情况，在防腐涂层验收合格后方可进行防火涂料施工。
- 2、涂装前将构件表面的灰尘、油渍、锈斑、焊渣、毛刺等清理干净。
- 3、施工环境温度宜在5°C-38°C之间，相对湿度不宜大于85%，且空气流通，当风速大于5m/s、雨雪天或构件表面结露时，不宜施工。
- 4、该涂料可采用喷涂、抹涂施工工艺。
- 5、该涂料分层涂覆，第一遍施工厚度控制在0.5mm左右，待实干后方可涂第二遍，第二遍涂层厚度控制在1mm左右，直至喷涂到规定厚度。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35°C，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防冻。

INDOOR INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (SPECIAL WATER-BASED TYPE)

Product Description

Indoor expansion type steel structure fireproof coating (special water-based type) is generally suitable for steel structure purlins, steel beams and other parts in chemical plants. This kind of coating is suitable for hydrocarbon (HC) fire heating conditions. And has excellent physical and chemical properties, fast drying, moisture resistance, acid and alkali resistance, and good fire resistance.

Scope of application

This product can be widely used in petrochemical, petroleum, industrial steel structure factories, large ships, stadiums, terminal buildings, pipelines, high-rise buildings, etc., which require high fire resistance time and high decorative requirements for fire protection of steel structures.

Construction Method

1. Check the integrity of the anti-corrosion coating before construction. After the anti-corrosion coating is qualified, the fire-resistant coating can be constructed.
2. Clean up the dust, oil stains, rust spots, welding slag and burrs on the surface of the components before painting.
3. The construction environment temperature should be between 5°C-38°C, the relative humidity should not be greater than 85%, and the air should be circulated. When the wind speed is greater than 5m/s, rain or snow or condensation on the surface of the components, construction is not suitable.
4. The coating can be sprayed or wiped.
5. The coating is applied in layers, and the thickness of the first pass is controlled to be about 0.5mm, and the second coat can be applied after it dries. The thickness of the second coat is controlled at about 1mm until the spraying reaches the specified thickness.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35°C, and it should be stored in a cool, ventilated and dry environment. Protect from rain, exposure and frost.

GT-NSF-Fp2.00-DM-601 21mm | GT-NSF-Fp3.00-DM-606 30mm

室内非膨胀型钢结构防火涂料

产品介绍

本防火涂料是一种双组份隔热型防火涂料，涂层遇火，在火场形成釉层隔热阻火，达到对钢结构的防火保护作用。
执行标准：GB14907-2018

应用范围

适用于室内承重钢结构建筑防火保护工程，如：厂房、库房、体育场馆、车站、航站楼、石油化工、大型建筑等室内钢结构建筑防火保护工程。



施工方法

- 1、对钢构件表面彻底除尘防锈，待底漆实干后再涂刷涂料。
 - 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，风力小于4级为宜，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
 - 3、涂料施工可采用抹涂、及喷涂法，但以喷涂为宜，涂层厚度应控制在3mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
 - 4、涂层达到20mm时，建议粘钉铺网，以防空鼓。
 - 5、涂层未干透前，禁止水中雨淋。
- 注意：在施工现场，配料一次不能太多，一般是用多少配多少，以防失效，最好30分钟用完，再用再配。

技术指标

在容器中的状态	经搅拌后呈均匀稠厚流体状态，无结块
干燥时间（表干）/h	≤24
初期干燥抗裂性	允许出现1~3条裂纹，其宽度应≤0.5mm
粘结强度/MPa	≥0.04
抗压强度/MPa	≥0.3
干密度/（kg/m ³ ）	≤500
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、本品粉料防止雨淋，液料防冻防暴晒。应储存在阴凉、通风、干燥条件良好的环境中。

INDOOR NON-EXPANDABLE STEEL STRUCTURE FIREPROOF COATING

Product Description

The fire retardant coating is a two-component heat-insulating fire retardant coating. When the coating encounters a fire, a glaze layer is formed on the fire site for heat insulation and fire prevention, so as to achieve the fire protection effect of the steel structure.
Executive standard: GB14907-2018

Scope of application

It is suitable for fire protection projects of indoor load-bearing steel structure buildings, such as: workshops, warehouses, stadiums, stations, terminals, petrochemicals, large buildings and other indoor steel structure buildings fire protection projects.

Construction Method

1. Thoroughly remove dust and rust on the surface of steel components, and apply paint after the primer is completely dry.
2. The construction should be at a temperature (5-35) °C, the relative humidity should be controlled within 80%, and the wind should be less than level 4. The steel structure should not be operated due to condensation, frost and water droplets on cloudy and rainy days. The construction process should avoid rain and exposure. . Prolong the curing time for yellow mold days.
3. The coating construction can be done by wiping and spraying, but spraying is the best method. The thickness of the coating should be controlled at about 3mm/pass, whichever does not sag. After the coating surface is dry, the next brushing can be carried out.
4. When the coating reaches 20mm, it is recommended to stick nails and spread the net to prevent hollowing.
5. Before the coating is completely dry, it is forbidden to wash with water and rain.

Note: At the construction site, there should not be too many ingredients at a time. Generally, use as much as you want to prevent failure. It is best to use it up in 30 minutes before using it again.

Technical Index

State in the container	After stirring, it becomes a uniform thick fluid state without agglomeration
Drying time (surface drying)/h	≤24
Initial drying and crack resistance	1-3 cracks are allowed, and the width should be ≤0.5mm
Bond strength/MPa	≥0.04
Compressive strength/MPa	≥0.3
Dry density/(kg/m ³)	≤500
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The powder material of this product is protected from rain, and the liquid material is anti-freeze and anti-exposure. It should be stored in a cool, well-ventilated, dry environment.

GT-NSF-Ft2.50-DM-605 31mm | GT-NSF-Ft3.00-DM-607 35mm

室内非膨胀型钢结构防火涂料（特种型）

产品介绍

特种钢结构防火涂料在型式试验中采用烃类（HC）火灾升温试验条件。对防火涂料涂层的耐火隔热等性能要求很高。涂层导热系数低，耐火性好、抗氧化、遇火形成高密度釉层阻止热量传向钢基材，使其耐火极限达3.0小时以上。

执行标准：GB14907-2018

应用范围

适用于化工设备、核电站等石油化工、冶金、电厂等室内钢结构建筑的防火保护工程。该涂料具有施工方便、涂层附着力强、机械强度高、耐火时间长等特点。在HC升温条件下能有效地阻隔火焰蔓延，为钢结构提供了可靠的防火保护。



施工方法

- 1、对钢构件表面彻底除尘防锈，待底漆实干后再涂刷涂料。
 - 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，风力小于4级为宜，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
 - 3、涂料施工可采用抹涂、及喷涂法，但以喷涂为宜，涂层厚度应控制在3mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
 - 4、涂层达到20mm时，建议粘钉铺网，以防空鼓。
 - 5、涂层未干透前，禁止水冲雨淋。
- 注意：在施工现场，配料一次不能太多，一般是用多少配多少，以防失效，最好30分钟用完，再用再配。

技术指标

在容器中的状态	经搅拌后呈均匀稠厚流体状态，无结块
干燥时间（表干）/h	≤24
初期干燥抗裂性	允许出现1~3条裂纹，其宽度应≤0.5mm
粘结强度/MPa	≥0.04
抗压强度/MPa	≥0.3
干密度/（kg/m ³ ）	≤500
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、本品粉料防止雨淋，液料防冻防暴晒。应储存在阴凉、通风、干燥条件良好的环境中。

INDOOR NON-INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (SPECIAL TYPE)

Product Description

The special steel structure fireproof coating adopts the hydrocarbon (HC) fire heating test conditions in the type test. High requirements for fire resistance and heat insulation of fire retardant coatings are required. The coating has low thermal conductivity, good fire resistance, anti-oxidation, and forms a high-density glaze layer in case of fire to prevent heat from being transferred to the steel substrate, making its fire resistance limit more than 3.0 hours.

Executive standard: GB14907-2018

Scope of application

It is suitable for fire protection projects of chemical equipment, nuclear power plants and other petrochemical, metallurgy, power plants and other indoor steel structure buildings. The coating has the characteristics of convenient construction, strong coating adhesion, high mechanical strength, and long fire resistance time. It can effectively block the flame spread under the condition of HC heating, and provide reliable fire protection for the steel structure.

Construction method

1. Thoroughly remove dust and rust on the surface of steel components, and apply paint after the primer is completely dry.
2. The construction should be at a temperature (5-35) °C, the relative humidity should be controlled within 80%, and the wind should be less than level 4. The steel structure should not be operated due to condensation, frost and water droplets on cloudy and rainy days. The construction process should avoid rain and exposure. . Prolong the curing time for yellow mold days.
3. The coating construction can be done by wiping and spraying, but spraying is the best method. The thickness of the coating should be controlled at about 3mm/pass, whichever does not sag. After the coating surface is dry, the next brushing can be carried out.
4. When the coating reaches 20mm, it is recommended to stick nails and spread the net to prevent hollowing.
5. Before the coating is completely dry, it is forbidden to wash with water and rain.

Note: At the construction site, there should not be too many ingredients at a time. Generally, use as much as you want to prevent failure. It is best to use it up in 30 minutes before using it again.

Technical Index

State in the container	After stirring, it becomes a uniform thick fluid state without agglomeration
Drying time (surface drying)/h	≤24
Initial drying and crack resistance	1~3 cracks are allowed, and the width should be ≤0.5mm
Bond strength/MPa	≥0.04
Compressive strength/MPa	≥0.3
Dry density/(kg/m ³)	≤500
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The powder material of this product prevents rain, and the liquid material is anti-freeze and anti-exposure. It should be stored in a cool, well-ventilated, dry environment.

GT-WSP-Fp1.00-DM-802 1.7mm

室外膨胀型钢结构防火涂料（水基型）

产品介绍

本防火涂料是一种水性膨胀型防火涂料，该涂料层薄、粘结度高等特点。本涂料刷在钢结构表面时可起到防火、防腐作用、遇火时涂层表面迅速膨胀，形成均匀致密的防火隔热层，从而达到对钢结构的防火保护作用。

执行标准：GB14907-2018

应用范围

本产品可广泛用于工业钢结构厂房、化工厂、大型船舶、体育场馆、候机楼、石化设备、管道、高层建筑等装饰性要求很高的室内钢结构的防火保护。



施工方法

- 1、施工前对钢结构件表面彻底除尘防锈。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
- 3、涂料开盖后，应先用电动工具搅拌均匀，经充分搅拌再进行施工，涂层应能流平且不流挂为准。施工时如发现涂料过稠时，可加入适量水稀释，充分搅拌均匀方可施工。
- 4、涂料施工以喷涂为宜，涂层厚度应控制在0.2mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
- 5、涂层未干透前，禁止水冲雨淋。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防冻。

OUTDOOR EXPANSION TYPE STEEL STRUCTURE FIREPROOF COATING (WATER-BASED)

Product Description

The fire retardant coating is a water-based intumescent fire retardant coating, which has the characteristics of thin layer and high adhesion. The paint can play the role of fire prevention and anti-corrosion when brushed on the surface of the steel structure, and the surface of the coating rapidly expands when exposed to fire to form a uniform and dense fire protection and heat insulation layer, so as to achieve the fire protection effect of the steel structure.

Executive standard: GB14907-2018

Scope of application

This product can be widely used for fire protection of indoor steel structures with high decorative requirements, such as industrial steel structure workshops, chemical plants, large ships, stadiums, terminal buildings, petrochemical equipment, pipelines, high-rise buildings, etc.

Construction Method

1. Thoroughly remove dust and rust from the surface of the steel structure before construction.
2. The construction should be at a temperature (5-35) °C, and the relative humidity should be controlled within 80%. The steel structure should not be operated due to condensation, frost and water droplets on rainy days. The construction process should avoid rain and exposure. The curing time should be prolonged for yellow mold days.
3. After the coating is opened, it should be stirred evenly with an electric tool, and then the construction should be carried out after sufficient stirring. The coating should be able to level and not sag. If the paint is found to be too thick during construction, it can be diluted by adding an appropriate amount of water and mixing well before construction.
4. The coating application should be sprayed, and the thickness of the coating should be controlled at about 0.2mm/pass, subject to no sagging, and the next coating can be done after the coating surface is dry.
5. Before the coating is completely dry, it is forbidden to wash with water and rain.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35℃, and it should be stored in a cool, ventilated and dry environment. Protect from rain, exposure and frost.

GT-WRP-Fp1.50-DM-805 1.9mm

室外膨胀型钢结构防火涂料（溶剂型）

产品介绍

本钢结构防火涂料由多种树脂及 N-P-C 阻燃剂体系原料及颜填料、助剂组成。涂层遇火迅速变软，继而发泡、膨胀形成致密的隔热层，以阻止火势蔓延及辐射热量，从而提高钢结构的耐火极限。

执行标准：GB14907-2018

应用范围

适用于体育馆、工业厂房、石油、化工、一般工业、高层建筑、酒店、文化娱乐场所、以及古建筑的结构材料的防火保护。



施工方法

- 1、对钢构件表面彻底除尘防锈，在底漆实干后再涂刷涂料。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程中忌雨淋、暴晒。黄霉天要延长养护时间。
- 3、涂料开盖后、应先用电动工具搅拌均匀，经充分搅拌再进行施工，涂层应能流平且不流挂为准。施工时如涂料过稠，可加入适量配套稀释剂（不得超过1%），充分搅拌均匀方可施工。
- 4、涂料施工可采用辊涂、刷涂及喷涂法，但以喷涂为好，涂层厚度应控制在0.2mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
- 5、涂层干透前，禁止水中雨淋。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防明火。

OUTDOOR EXPANSION TYPE STEEL STRUCTURE FIREPROOF COATING (SOLVENT TYPE)

Product Description

This steel structure fireproof coating is composed of a variety of resins and N-P-C flame retardant system raw materials, pigments, fillers, and additives. The coating quickly softens when exposed to fire, and then foams and expands to form a dense insulation layer to prevent the spread of fire and radiate heat, thereby increasing the fire resistance limit of the steel structure.

Executive standard: GB14907-2018

Scope of application

It is suitable for fire protection of structural materials of stadiums, industrial plants, petroleum, chemical industry, general industry, high-rise buildings, hotels, cultural and entertainment places, and ancient buildings.

Construction Method

1. Thoroughly remove dust and rust on the surface of steel components, and apply paint after the primer is completely dry.
2. The construction should be at a temperature (5-35) °C, and the relative humidity should be controlled within 80%. The steel structure should not be operated due to condensation, frost and water droplets on rainy days. The construction process should avoid rain and exposure. The curing time should be prolonged for yellow mold days.
3. After the coating is opened, it should be stirred evenly with an electric tool, and the coating should be able to level and not sag before construction. If the paint is too thick during construction, add an appropriate amount of supporting diluent (not more than 1%), and mix well before construction.
4. The coating can be applied by roller coating, brushing and spraying, but spraying is better, and the thickness of the coating should be Control at about 0.2mm/pass, subject to no sagging, and the next coating can be done after the coating surface is dry.
5. Before the coating is completely dry, it is forbidden to shower with water and rain.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

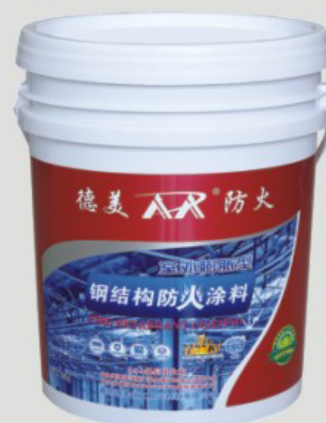
1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35℃, and it should be stored in a cool, ventilated and dry environment. Protect from rain and sun and open flames.

GT-WSP-Ft1.50-DM-803 3.1mm | GT-WSP-Ft2.00-DM-806 4.0mm

室外膨胀型钢结构防火涂料（特种水基型）

产品介绍

一般适用于室外化工厂中的钢结构檩条、钢梁等部位。该种涂料适用于烃类（HC）火灾升温条件中。并具有优良的理化性能，干燥快、抗潮、抗酸碱、耐火性好等特点。
执行标准：GB14907-2018



应用范围

本产品可广泛用于石化、石油、工业钢结构厂房、大型船舶、体育场馆、候机楼、管道、高层建筑等装饰性要求很高的钢结构的防火保护。

施工方法

- 1、施工前对钢结构件表面彻底除尘防锈。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
- 3、涂料开盖后，应先用电动工具搅拌均匀，经充分搅拌再进行施工，涂层应能流平且不流挂为准。施工时如发现涂料过稠时，可加入适量水稀释，充分搅拌均匀方可施工。
- 4、涂料施工以喷涂为宜，涂层厚度应控制在0.2mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
- 5、涂层未干透前，禁止水中雨淋。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防冻。

OUTDOOR INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (SPECIAL WATER-BASED TYPE)

Product Description

It is generally suitable for steel structure purlins, steel beams and other parts in outdoor chemical plants. This coating is suitable for use in hydrocarbon (HC) fires at elevated temperatures. And has excellent physical and chemical properties, fast drying, moisture resistance, acid and alkali resistance, good fire resistance and so on.
Executive standard: GB14907-2018

Scope of application

This product can be widely used in the fire protection of steel structures with high decorative requirements, such as petrochemical, petroleum, industrial steel structure workshops, large ships, stadiums, terminal buildings, pipelines, high-rise buildings, etc.

Construction method

1. Thoroughly remove dust and rust from the surface of the steel structure before construction.
2. The construction should be at a temperature (5-35) °C, and the relative humidity should be controlled within 80%. The steel structure should not be operated due to condensation, frost and water droplets on rainy days. The construction process should avoid rain and exposure. The curing time should be prolonged for yellow mold days.
3. After the coating is opened, it should be stirred evenly with an electric tool, and then the construction should be carried out after sufficient stirring. The coating should be able to level and not sag. If the paint is found to be too thick during construction, it can be diluted by adding an appropriate amount of water and mixing well before construction.
4. The coating application should be sprayed, and the thickness of the coating should be controlled at about 0.2mm/pass, subject to no sagging, and the next coating can be done after the coating surface is dry.
5. Before the coating is completely dry, it is forbidden to wash with water and rain.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35℃, and it should be stored in a cool, ventilated and dry environment. Protect from rain, exposure and frost.

GT-WRP-Ft2.00-DM-807 4.0mm

室外膨胀型钢结构防火涂料（特种溶剂型）

产品介绍

室外膨胀型钢结构防火涂料（特种溶剂型）是我公司采用先进技术开发研制的钢结构防火涂料，适用于烃类（HC）火灾升温条件下，该涂料遇火膨胀发泡，形成耐火隔热层，阻止热量迅速传向钢基材。

执行标准：GB14907-2018

应用范围

本产品可广泛用于石化、石油、工业钢结构厂房、大型船舶、体育场馆、候机楼、管道、高层建筑等装饰性要求很高的钢结构的防火保护。



施工方法

- 1、防火涂料施工前，应将钢结构表面的尘土、油污、杂物等清理干净并做除锈处理，加涂防锈底漆，待防锈漆实干后，方可进行防火涂料的施工。
- 2、施工时，对不需要进行防火保护的墙面、门窗、机械设备和其他构件等应进行遮蔽保护。
- 3、第一次喷涂厚度不宜超过1mm，待完全干燥后方可进行下一遍施工，而后，每遍施工厚度不宜超过2mm，防止出现流挂、开裂等现象。直至达到要求厚度。
- 4、涂覆后的涂层应完整、无漏涂、表面均匀、色泽一致，无流挂、脱落、开裂现象。

技术指标

在容器中的状态	经搅拌后呈均匀细腻状态或稠厚流体状态，无结块
干燥时间（表干）/h	≤12
初期干燥抗裂性	不应出现裂纹
粘结强度/MPa	≥0.15
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、储存环境温度0-35℃，应储存阴凉、通风、干燥条件良好的环境中。防雨淋暴晒、防明火。

OUTDOOR INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (SPECIAL SOLVENT TYPE)

Product Description

The outdoor intumescent fireproof coating for steel structure (special solvent type) is a fireproof coating for steel structure developed by our company using advanced technology, preventing the rapid transfer of heat to the steel substrate.
Executive standard: GB14907-2018

Scope of application

This product can be widely used in the fire protection of steel structures with high decorative requirements, such as petrochemical, petroleum, industrial steel structure workshops, large ships, stadiums, terminal buildings, pipelines, high-rise buildings, etc.

Construction method

1. Before the construction of the fireproof coating, the dust, oil stains and debris on the surface of the steel structure should be cleaned up and derusted, and an anti-rust primer should be applied. The construction of the fireproof coating can only be carried out after the anti-rust paint is completely dry.
2. During construction, the walls, doors and windows, mechanical equipment and other components that do not require fire protection should be shielded and protected.
3. The thickness of the first spraying should not exceed 1mm, and the next construction can be carried out after it is completely dried. Then, the thickness of each construction should not exceed 2mm to prevent sagging and cracking. Until the required thickness is reached.
4. The coating after coating should be complete, no missing coating, uniform surface, consistent color, and no sagging, falling off, or cracking.

Technical Index

State in the container	After stirring, it is in a uniform and delicate state or a thick fluid state, without agglomeration
Drying time (surface drying)/h	≤12
Initial drying and crack resistance	No cracks
Bond strength/MPa	≥0.15
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The storage environment temperature is 0-35℃, and it should be stored in a cool, ventilated and dry environment. Protect from rain and sun and open flames.

GT-WSF-Fp3.00-DM-608 31mm

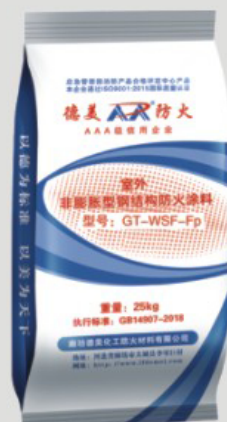
室外非膨胀型钢结构防火涂料

产品介绍

本防火涂料是一种双组份隔热型防火涂料，涂层遇火，在火场形成釉层隔热阻火，达到对钢结构的防火保护作用。
执行标准：GB14907-2018

应用范围

适用于各种高层建筑、石油、化工、电力、冶金、国防、轻工业等各类室外建筑承重钢结构的防火保护。



施工方法

- 1、对钢构件表面彻底除尘防锈，待底漆实干后再涂刷涂料。
 - 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，风力小于4级为宜，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。黄霉天要延长养护时间。
 - 3、涂料施工可采用抹涂、及喷涂法，但以喷涂为好，涂层厚度应控制在3mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
 - 4、涂层达到20mm时，建议粘钉铺网，以防空鼓。
 - 5、涂层未干透前，禁止水中雨淋。
- 注意：在施工现场，配料一次不能太多，一般是用多少配多少，以防失效，最好30分钟用完，再用再配。

技术指标

在容器中的状态	经搅拌后呈均匀稠厚流体状态，无结块
干燥时间（表干）/h	≤24
初期干燥抗裂性	允许出现1~3条裂纹，其宽度应≤0.5mm
粘结/抗压强度/MPa	≥0.04/≥0.5
干密度/（kg/m ³ ）	≤650
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、本品粉料防止雨淋，液料防冻防暴晒。应储存在阴凉、通风、干燥条件良好的环境中。

OUTDOOR NON-EXPANDABLE STEEL STRUCTURE FIREPROOF COATING

Product Description

The fire retardant coating is a two-component heat-insulating fire retardant coating. When the coating encounters a fire, a glaze layer is formed on the fire site for heat insulation and fire prevention, so as to achieve the fire protection effect of the steel structure.
Executive standard: GB14907-2018

Scope of application

It is suitable for fire protection of load-bearing steel structures of various outdoor buildings such as high-rise buildings, petroleum, chemical industry, electric power, metallurgy, national defense, light industry, etc.

Construction method

1. Thoroughly remove dust and rust on the surface of steel components, and apply paint after the primer is completely dry.
 2. The construction should be at a temperature (5-35) °C, the relative humidity should be controlled within 80%, and the wind should be less than level 4. The steel structure should not be operated due to condensation, frost and water droplets on cloudy and rainy days. The construction process should avoid rain and exposure. Prolong the curing time for yellow mold days.
 3. Paint application can use wiping and spraying methods, but spraying is better, the thickness of the coating should be controlled at about 3mm/pass, whichever is not sag, and the next coating can be done after the coating surface is dry.
 4. When the coating reaches 20mm, it is recommended to stick nails and spread the net to prevent hollowing.
 5. Before the coating is completely dry, it is forbidden to wash with water and rain.
- Note: At the construction site, there should not be too many ingredients at a time. Generally, use as much as you want to prevent failure. It is best to use it up in 30 minutes before using it again.

Technical Index

State in the container	After stirring, it becomes a uniform thick fluid state without agglomeration
Drying time (surface drying)/h	≤24
Initial drying and crack resistance	1-3 cracks are allowed, and the width should be ≤0.5mm
Bonding/compressive strength/MPa	≥0.04/≥0.5
Dry density/(kg/m ³)	≤650
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The powder material of this product prevents rain, and the liquid material is anti-freeze and anti-exposure. It should be stored in a cool, well-ventilated, dry environment.

GT-WSF-Ft2.00-DM-602 27mm

室外非膨胀型钢结构防火涂料（特种型）

产品介绍

特种钢结构防火涂料在型式试验中采用烃类（HC）火灾升温试验条件。对防火涂料涂层的耐火隔热等性能要求很高。涂层导热系数低，耐火性好、抗氧化、涂层遇火形成高密度釉层阻止热量传向钢基材。

执行标准：GB14907-2018

应用范围

适用于特殊室外承重钢结构建筑的防火保护工程，如化工设备、变电站、配电站、火电厂、核电站等石油化工、冶金、电厂等室外钢结构建筑的防火保护工程。



施工方法

- 1、对钢构件表面彻底除尘防锈，待底漆实干后再涂刷涂料。
 - 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，风力小于4级为宜，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。
 - 3、涂料施工可采用抹涂、及喷涂法，涂层厚度应控制在3mm/遍左右，以不流挂为准，待涂层表干后方可进行下一遍涂刷。
 - 4、涂层达到20mm时，建议粘钉铺网，以防空鼓。
 - 5、涂层未干透前，禁止水冲雨淋。
- 注意：在施工现场，配料一次不能太多，一般是用多少配多少，以防失效，最好30分钟用完，再用再配。

技术指标

在容器中的状态	经搅拌后呈均匀稠厚流体状态，无结块
干燥时间（表干）/h	≤24
初期干燥抗裂性	允许出现1~3条裂纹，其宽度应≤0.5mm
粘结/抗压强度/MPa	≥0.04/≥0.5
干密度/（kg/m ³ ）	≤650
耐曝热性	720h试验后，涂层应无起层、脱落、空鼓、开裂现象，且隔热效率衰减量应≤35%
耐湿热性	504h试验后，涂层应无起层、脱落现象，且隔热效率衰减量应≤35%
耐冻融循环性	15次试验后，涂层应无开裂、脱落、起泡现象，且隔热效率衰减量应≤35%
耐酸/碱性	360h试验后，涂层应无起层、脱落、开裂现象，且隔热效率衰减量应≤35%
耐盐雾腐蚀性	30次试验后，涂层应无起泡、明显的变质、软化现象，且隔热效率衰减量应≤35%
耐紫外线辐照性	60次试验后，涂层应无起层、开裂、粉化现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、本品粉料防止雨淋，液料防冻防暴晒。应储存在阴凉、通风、干燥条件良好的环境中。

OUTDOOR NON-INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (SPECIAL TYPE)

Product Description

The special steel structure fireproof coating adopts the hydrocarbon (HC) fire heating test conditions in the type test. High requirements for fire resistance and heat insulation of fire retardant coatings are required. The coating has low thermal conductivity, good fire resistance, anti-oxidation, and the coating forms a high-density glaze layer in case of fire to prevent heat from being transmitted to the steel substrate. Executive standard: GB14907-2018

Scope of application

It is suitable for fire protection projects of special outdoor load-bearing steel structure buildings, such as chemical equipment, substations, distribution stations, thermal power plants, nuclear power plants and other petrochemical, metallurgical, power plant and other outdoor steel structure buildings.

Construction method

1. Thoroughly remove dust and rust on the surface of the steel components, and then apply the paint after the primer is dry.
 2. The construction temperature should be (5-35) °C, the relative humidity should be controlled within 80%, and the wind force should be less than 4. It is not suitable for the steel structure to be exposed to condensation, frost and water droplets on cloudy and rainy days. Avoid rain and exposure during the construction process.
 3. The coating construction can be done by wiping and spraying. The thickness of the coating should be controlled at about 3mm/pass, whichever does not sag. After the coating surface is dry, the next brushing can be carried out.
 4. When the coating reaches 20mm, it is recommended to stick the nails and lay the net to prevent the air drum.
 5. Before the coating is dry, it is forbidden to shower with water.
- Note: At the construction site, the ingredients should not be too much at one time. Generally, how much is used to prevent failure. It is best to use it up in 30 minutes, and then use it again.

Technical Index

State in the container	After stirring, it becomes a uniform thick fluid state without agglomeration
Drying time (surface drying)/h	≤24
Initial drying and crack resistance	1~3 cracks are allowed, and the width should be ≤0.5mm
Bonding/compressive strength/MPa	≥0.04/≥0.5
Dry density/(kg/m ³)	≤650
Heat resistance	After the 720h test, the coating should be free of layering, peeling, hollowing, or cracking, and the attenuation of thermal insulation efficiency should be ≤35%
Humidity and heat resistance	After the 504h test, the coating should be free of layering or shedding, and the attenuation of thermal insulation efficiency should be ≤35%
Freeze-thaw cycle resistance	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%
Acid/alkali resistance	After the 360h test, the coating should be free of layering, peeling, or cracking, and the attenuation of the thermal insulation efficiency should be ≤35%
Salt spray corrosion resistance	After 30 tests, the coating should have no blistering, obvious deterioration, or softening, and the attenuation of thermal insulation efficiency should be ≤35%
UV radiation resistance	After 60 tests, the coating should be free of layering, cracking and chalking, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The powder material of this product prevents rain, and the liquid material is anti-freeze and anti-exposure. It should be stored in a cool, well-ventilated, dry environment.

GT-NSF-Fp2.50-DM-603(石膏基) 26mm | GT-NSF-Fp3.00-DM-609(石膏基) 30mm

室内非膨胀型钢结构防火涂料 (石膏基)

产品介绍

本型防火涂料是以石膏基材料为主体，添加少量轻料复合而成，具有强度高、耐久性好、外观平整等特点，即可喷涂也可抹涂施工。主要应用在多层、高层、超高层等钢结构民用（工业）建筑室内或隐蔽工程的钢结构表面。
执行标准：GB14907-2018

应用范围

适用于室内的钢柱、钢梁、托梁、桁架、网架、钢楼梯、压型钢板及预制混凝土构件等抗磨损或抗损坏钢构件。还适用于交通枢纽站、会展中心、楼梯井、轻生产区域和设施、设备间等。



施工方法

- 1、对钢构件表面彻底除锈，待底漆实干后再涂刷涂料。
- 2、施工应在温度（5-35）℃，相对湿度应控制在80%以内，阴雨天钢结构有结露、霜及水滴不宜作业，施工过程忌雨淋、暴晒。
- 3、涂料施工可采用抹涂、及喷涂法，但以喷涂为好，第一遍涂层厚度应控制在3mm/遍左右，以不流挂为准，待涂层彻底干燥后用手扣不动，才能进行下一遍喷涂。第二遍喷涂厚度6-8mm为宜，干燥48小时后才能进行下一遍喷涂。以此类推，直至规定厚度。
注意：配料一次不能太多，一般是用多少配多少，以防失效，最好30分钟用完，再用再配。

技术指标

在容器中的状态	经搅拌后呈均匀稠厚流体状态，无结块
干燥时间（表干）/h	≤24
初期干燥抗裂性	允许出现1~3条裂纹，其宽度应≤0.5mm
粘结强度/MPa	≥0.04
抗压强度/MPa	≥0.3
干密度/（kg/m ³ ）	≤500
隔热效率偏差	±15%
pH值	≥7
耐水性	24h试验后，涂层应无起层、发泡、脱落现象，且隔热效率衰减量应≤35%
耐冷热循环性	15次试验后，涂层应无开裂、剥落、起泡现象，且隔热效率衰减量应≤35%

包装运输

- 1、本品为普通货物运输。
- 2、本品粉料防止雨淋，液料防冻防暴晒。应储存在阴凉、通风、干燥条件良好的环境中。

INDOOR NON-INTUMESCENT STEEL STRUCTURE FIREPROOF COATING (GYPSUM-BASED)

Product Description

This type of fire-retardant coating is mainly composed of gypsum-based materials and added with a small amount of light materials. It has the characteristics of high strength, good durability, and smooth appearance. It can be sprayed or wiped. Mainly used in the steel structure surface of multi-story, high-rise, super high-rise and other steel structure civil (industrial) buildings indoors or concealed projects.
Executive standard: GB14907-2018

Scope of application

It is suitable for wear-resistant or damage-resistant steel components such as steel columns, steel beams, joists, trusses, grids, steel stairs, profiled steel plates and precast concrete components. It is also suitable for transportation hubs, exhibition centers, stairwells, light production areas and facilities, equipment rooms, etc.

Construction Method

1. Thoroughly remove the rust on the surface of the steel component, and apply the paint after the primer is completely dry.
2. The construction should be performed at a temperature of (5-35) °C, and the relative humidity should be controlled within 80%. In cloudy and rainy days, the steel structure should not be operated due to condensation, frost and water droplets. During the construction process, avoid rain and sun exposure.
3. Paint application can use wiping and spraying methods, but spraying is better, the thickness of the first coating should be controlled at about 3mm/pass, whichever is not sag, and it will not be buckled by hand after the coating is completely dried. Before the next spraying can be carried out. The thickness of the second spraying is 6-8mm, and the next spraying can be done after drying for 48 hours. And so on, until the specified thickness.
Note: Do not have too many ingredients at a time, generally use as much as you want to prevent failure. It is best to use it up in 30 minutes before using it again.

Technical Index

State in the container	After stirring, it becomes a uniform thick fluid state without agglomeration
Drying time (surface drying)/h	≤24
Initial drying and crack resistance	1~3 cracks are allowed, and the width should be ≤0.5mm
Bond strength/MPa	≥0.04
Compressive strength/MPa	≥0.3
Dry density/(kg/m ³)	≤500
Insulation efficiency deviation	±15%
pH value	≥7
Water resistance	After the 24h test, the coating should be free of layering, foaming or shedding, and the attenuation of heat insulation efficiency should be ≤35%
Resistance to cold and heat cycles	After 15 tests, the coating should be free of cracking, peeling, or blistering, and the attenuation of thermal insulation efficiency should be ≤35%

Packing And Shipping

1. This product is for general cargo transportation.
2. The powder material of this product is protected from rain, and the liquid material is anti-freeze and anti-exposure. It should be stored in a cool, well-ventilated, dry environment.

SMT-S/DM-05

饰面型防火涂料

产品介绍

SMT-S/DM-05饰面型防火涂料是一种集装饰和防火功能为一体的新型涂料品种。当防火涂料涂覆于可燃基材上时，平时可起到装饰作用，一旦火灾发生时，则可阻止火势蔓延，达到保护基材的目的，品种有水性防火涂料、透明防火涂料和溶剂型防火涂料。执行标准：GB12441-2018



应用范围

适用于一般工业、养殖业及民用建筑、高层建筑、酒店、文化娱乐场所、古建筑的结构材料、纤维板、刨花板、玻璃钢板制品等易燃材料，以及水泥墙面等，起到防火保护作用。

施工方法

1. 施工前，将待涂基材表面除尘、除油污等杂质，使表面清洁。基层应平滑、结实、干燥和清洁，无尘土、油渍、水渍等污物。
2. 涂覆施工前须将涂料搅拌均匀，涂料过稠时，可加适量稀释剂稀释。采用刷涂、喷涂和辊涂的涂覆方法。至少分两遍进行涂覆，上一遍涂层表干后方可进行下一遍涂覆。涂层要求完整、无漏涂、表面平整均匀、色泽一致，涂层厚度不得低于0.3mm，以免影响防火效果。

技术指标

细度, μm	≤ 90
干燥时间, h	表干 ≤ 5 实干 ≤ 24
附着力, 级	≤ 3
柔韧性, mm	≤ 3
耐冲击性, cm	≥ 20
耐水性, h	经24h试验, 涂膜不起皱, 不剥落
耐湿热性, h	经48h试验, 涂膜无起泡, 无脱落
耐燃时间, min	≥ 15
质量损失, g	≤ 5.0
炭化体积, cm^3	≤ 25

包装运输

1. 产品按普通货物运输、无任何危险。严禁雨淋，日光暴晒。
2. 存储环境温度0-35°C，存储于阴凉通风干燥环境中。

FINISHING TYPE FIREPROOF COATING

Product Description

SMT-S/DM-05 decorative fire-retardant coating is a new type of coating that integrates decorative and fire-retardant functions. When the fire retardant coating is applied to the combustible substrate, it can play a decorative role at ordinary times. Once a fire occurs, it can prevent the fire from spreading and achieve the purpose of protecting the substrate. There are water-based fire retardant coatings, transparent fire retardant coatings and solvent-based fire retardants. coating. Executive standard: GB12441-2018

Scope of application

It is suitable for general industry, aquaculture and civil buildings, high-rise buildings, hotels, cultural and entertainment places, structural materials of ancient buildings, fiberboard, particleboard, glass steel products and other flammable materials, as well as cement walls, etc., to play a fire protection role.

Construction Method

1. Before construction, remove dust, oil and other impurities on the surface of the substrate to be coated to make the surface clean. The base layer should be smooth, strong, dry and clean, free of dirt, oil stains, water stains and other dirt.
2. The paint must be stirred evenly before coating construction. When the paint is too thick, it can be diluted by adding an appropriate amount of thinner. Adopt the coating method of brushing, spraying and roller coating. Coating should be carried out in at least two passes, and the next pass can be carried out only after the surface of the previous coat is dry. The coating is required to be complete, no missing coating, smooth and uniform surface, consistent color, and the thickness of the coating should not be less than 0.3mm, so as not to affect the fire prevention effect.

Technical Index

Fineness, μm	≤ 90
Drying time, h	Surface dry ≤ 5 actual dry ≤ 24
Adhesion, grade	≤ 3
Flexibility, mm	≤ 3
Impact resistance, cm	≥ 20
Water resistance, h	After 24h test, the coating film does not wrinkle or peel off
Humidity and heat resistance, h	After 48h test, the coating film has no blistering or shedding
Flame resistance time, min	≥ 15
Mass loss, g	≤ 5.0
Carbonization volume, cm^3	≤ 25

Packing And Shipping

1. The products are transported as ordinary goods without any danger. Rain and sun exposure are strictly prohibited.
2. The storage environment temperature is 0-35°C, stored in a cool, ventilated and dry environment.

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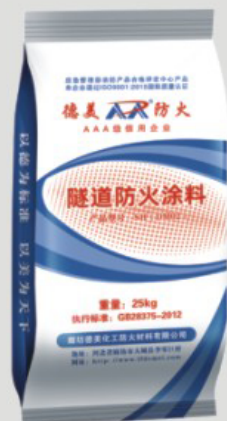
隧道防火涂料

产品介绍

隧道防火涂料为非膨胀隔热型涂料，其密度轻，热导率小，耐火性好。而且是无污染的水性涂料，可通过机械喷涂于公路、铁路、隧道等混凝土表面。火灾时基本不产生浓烟和有毒气体。其涂层20mm，耐火极限超过2.0h。
执行标准：GB28375-2012

应用范围

主要适用于公路隧道、铁路隧道的防火，还适用于石化工程、高层建筑、钢结构、地下车库的防火需要。



施工方法

- 1、范围：本涂料可用机械喷涂或手工抹涂于公路、铁路、隧道等混凝土表面，也可用于地下铁道的涵洞中，提高其耐火极限超过2.0h以上。在无火灾条件下，本涂料还有吸音作用。
- 2、施工一般条件，室温 > 0°C 以上，湿度 < 90%，风力 < 4级。当施工温度在0°C以下时，需向本厂说明添加防冻剂。当风力 > 4级时，需稍加遮挡。
- 3、基面处理：除油污、除浮沉、去掉水珠。达到表面洁净，当混凝土表面太光滑时，可在其表面采取拉毛等措施。
- 4、第一层喷涂厚度在2mm，以后每层厚度6-8mm为宜，直到达所需厚度，第一层实干后方可喷涂第二遍。
- 5、在小修小补的情况下可用抹刀抹涂修补。一般大面积施工不宜抹刀法施工。
- 6、注意事项：涂层在未完全干固时，不能冲水。

技术指标

在容器中状态	经搅拌后呈均匀稠厚液体，无结块
干燥时间表干	≤24h
粘接强度	≥0.15Mpa
干密度	≤700
耐冻融循环试验	≥15，涂层不开裂、起层、脱落，允许轻微发胀和变色
耐湿热性	≥720h，涂层不开裂、起层、脱落，允许轻微发胀和变色
耐火性能	2.0h

包装运输

- 1、普通货物运输。
- 2、储存于0-35°C阴凉通风干燥环境中，防止雨淋暴晒。

TUNNEL FIREPROOF COATING

Product Description

The tunnel fireproof coating is a non-expandable heat-insulating coating with light density, low thermal conductivity and good fire resistance. It is also a pollution-free water-based paint that can be sprayed on concrete surfaces such as highways, railways, and tunnels by mechanical spraying. Basically no dense smoke and toxic gases are produced during a fire. The coating is 20mm and the fire resistance limit exceeds 2.0h.
Executive standard: GB28375-2012

Scope of application

It is mainly suitable for fire protection of highway tunnels and railway tunnels, and also suitable for fire protection of petrochemical projects, high-rise buildings, steel structures and underground garages.

Construction Method

1. Scope: This coating can be sprayed or manually applied to the surface of concrete such as highways, railways, tunnels, etc., and can also be used in culverts of underground railways to increase its fire resistance limit to more than 2.0h. Under no fire conditions, this coating can also absorb sound.
2. General conditions for construction, room temperature > 0°C above, humidity < 90%, wind force < level 4. When the construction temperature is below 0°C, it is necessary to add antifreeze to the factory. When the wind force is greater than level 4, it needs to be sheltered slightly.
3. Base surface treatment: remove oil, float and sink, and remove water droplets. To achieve a clean surface, when the surface of the concrete is too smooth, measures such as roughening can be taken on the surface.
4. The spraying thickness of the first layer is 2mm, and the thickness of each subsequent layer is 6-8mm until the required thickness is reached. The second layer can be sprayed only after the first layer is completely dry.
5. In the case of minor repairs, a spatula can be used for patching. Generally, the spatula method is not suitable for large-area construction.
6. Matters needing attention: Do not flush with water when the coating is not completely dry.

Technical Index

State in the container	After stirring, it becomes a uniform thick liquid without lumps
Drying schedule	≤24h
Bonding strength	≥0.15Mpa
Dry density	≤700
Freeze-thaw cycle test	≥15, the coating will not crack, layer, fall off, and allow slight swelling and discoloration
Humidity and heat resistance	≥720h, the coating will not crack, layer or fall off, and allow slight swelling and discoloration
Fire resistance	2.0h

Packing And Shipping

1. General cargo transportation.
2. Store in a cool, ventilated and dry environment at 0-35°C to prevent rain and sun exposure.

DFT-1

电缆防火涂料

产品介绍

电缆防火涂料是我公司根据GB28374-2012国家标准研制成功的新型防火涂料，本品涂层受火时能生成均匀致密的海绵状泡沫隔热层，能有效的抑制、阻隔火焰的传播与蔓延，对电线、电缆起到保护作用。

执行标准：GB28374-2012

应用范围

本产品广泛用于电厂、工矿、电信和民用建筑的电线电缆的阻燃处理，也可用于木结构、金属结构建筑物及地下工程的可燃烧性基材等物体的防火保护。



施工方法

- 1、防火涂料施工前应将电缆表面的浮尘、油污、杂物等清洗、打磨干净，待表面干燥后方可进行防火涂料的施工。
- 2、本品施工采用喷涂、刷涂等方法，使用时应充分搅拌均匀，涂料稍稠时，可加入适量配套稀释剂进行稀释，以方便喷涂为宜。
- 3、施工过程中及涂层未干时之前，应防水、防暴晒、防污染、防移动、防弯曲，如有损坏及时修补。
- 4、对于塑料、橡胶外皮的电线电缆，一般是直接涂刷5次以上，涂层厚度为0.5-1mm，大约用量1.5kg/m²，对于包装有油脂的绝缘电缆，应先包一层玻璃丝布，再进行涂刷，如果在室外或者潮湿的环境下施工，应加配套罩面清漆。



技术指标

在容器中的状态	经搅拌后呈细腻状态
细度	≤90um
粘度	≥70s
干燥时间	表干≤4h 实干≤24h
耐油性	浸泡7d涂层无起皱、剥落、起泡。
抗弯性	涂层不起层、不脱落。

包装运输

- 1、本产品采用金属或塑料桶包装。
- 2、产品应储存在阴凉、干燥、通风的环境中。
- 3、产品运输时，应防止日晒、雨淋、防冻、防明火，防止包装桶损坏、倾倒、溢出。
- 4、本产品有效贮存期为6个月。

CABLE FIREPROOF COATING

Product Description

The cable fireproof coating is a new type of fireproof coating successfully developed by our company according to the national standard GB28374-2012. When the coating of this product is exposed to fire, it can form a uniform and dense sponge-like foam insulation layer, which can effectively inhibit and block the spread and spread of flames. Protects wires and cables.
Executive standard: GB28374-2012

Scope of application

This product is widely used for flame retardant treatment of wires and cables in power plants, industrial and mining, telecommunications and civil buildings, and can also be used for fire protection of wood structures, metal structures and flammable substrates in underground works.

Construction Method

1. The floating dust, oil stains and debris on the surface of the cable should be cleaned and polished before the construction of the fireproof coating. The construction of the fireproof coating can be carried out after the surface is dry.
2. The construction of this product adopts spraying, brushing and other methods. It should be fully stirred during use. When the paint is slightly thicker, an appropriate amount of supporting diluent can be added to dilute it to facilitate spraying.
3. During the construction process and before the coating is dry, it should be waterproof, anti-exposure, anti-pollution, anti-movement, anti-bending, and repair in time if it is damaged.
4. For cables and cables with plastic and rubber sheaths, it is generally applied directly for more than 5 times, the coating thickness is 0.5-1mm, and the dosage is about 1.5kg/m². For insulated cables packed with grease, a layer of glass fiber cloth should be wrapped first, and then paint, if the construction is outdoors or in a humid environment, a supporting varnish should be added.

Technical Index

State in the container	After stirring, it is in a delicate state
Fineness	≤90um
Viscosity	≥70s
Drying time	Surface dry ≤4h actual dry ≤24h
Oil resistance	There is no wrinkle, peeling or blistering of the coating after immersing for 7 days.
Flexural resistance	The coating does not layer or fall off.

Packing And Shipping

1. This product is packed in metal or plastic drums.
2. The product should be stored in a cool, dry and ventilated environment.
3. When the product is transported, it should be protected from sunlight, rain, frost, and open flame, and prevent the packaging barrel from being damaged, dumped, or overflowed.
4. The effective storage period of this product is 6 months.

DH-DM-01

防火堤防火涂料

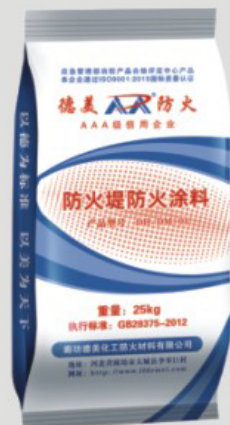
产品介绍

防火堤防火涂料是我公司根据GB28375-2012国家标准研制的新型防火涂料，以无机绝热材料为主要成份。并有如下特点：

- 1、环保产品，对人体和环境无毒、无害。
- 2、附着力强，不开裂、不脱落。
- 3、施工方便，可以人工涂抹，又可机械喷涂。
- 4、涂层厚度薄、耐火性能好、耐水耐潮湿性好。

应用范围

该产品主要用于石油化工储罐区，油、气输送管道，船舶、码头、海洋设施等行业防火堤混凝土表面防护的特种涂料，具有防火阻燃的效果。



施工方法

- 1、基材处理。应对被保护体的基材进行彻底清理，使表面洁净，以免影响附着力。
- 2、底层喷涂。以一定比例配制并搅拌均匀后即成底料，用大口径专用喷枪进行喷涂，涂布量约为0.3-0.4 kg/m²左右，第一层不要太厚，保持表面的粗糙效果，有利第二层结合。
- 3、待底涂层干燥后（高温干燥天气5-8h,一般在1d以上）即可涂抹第2层、第3层，每层厚度约在5-8mm之间，最大不超过10mm，最后用抹子抹平。用量按10mm厚度计算，耗量约7kg/m³。
- 4、涂料喷涂间隔宜控制在12-24h（20℃时），不宜过长或过短，根据气候情况可作适当调节。已加水混合好的湿料应在1h内用完。适宜施工环境温度≥5℃，相对湿度≤90%。
- 5、若另有要求时，待涂层实干后，再涂1-2道装饰面涂或其他功能性涂料。

技术指标

在容器中的状态	无结块，搅拌后呈均匀状态
干密度 (kg/m ³)	≤700
干燥时间	表干≤24h
耐酸性	经360h实验后，涂层不开裂、起层、脱落。
耐水性	经720h实验后，涂层不开裂、起层、脱落。
耐湿热性	经720h实验后，涂层不开裂、起层、脱落。
耐冻融循环	经15次循环，涂层不开裂、起层、脱落。
产烟毒性	符合GB/T20285-2006规定烟毒性危险分级ZAI级

包装运输

- 1、涂料有效期为半年，一经开包就立即使用，受潮结块的涂料不得使用；净重：25公斤。
- 2、浆料搅拌稠度要适中，不可太稠或太稀，以适宜施工为准。
- 3、搅拌施工过程中散落，反弹的浆料可及时回收利用，被污染和超过2小时的涂料不能再用。
- 4、施工方法可根据涂层的设计厚度和施工条件可进行适当调整。

FIRE DIKE FIRE RETARDANT COATING

Product Description

Fire dam fire retardant coating is a new type of fire retardant coating developed by our company according to the national standard GB28375-2012. It is mainly composed of inorganic thermal insulation materials. And has the following characteristics:

1. Environmentally friendly products, non-toxic and harmless to the human body and the environment.
2. Strong adhesion, no cracking or falling off.
3. The construction is convenient, it can be applied manually, and it can be sprayed mechanically.
4. The coating thickness is thin, the fire resistance is good, and the water resistance and moisture resistance are good.

Scope of application

This product is mainly used as a special coating for the protection of the concrete surface of fire embankments in petrochemical storage tank areas, oil and gas pipelines, ships, docks, marine facilities and other industries, and has the effect of fire and flame retardant.

Construction Method

1. Substrate treatment. The substrate of the protected body should be thoroughly cleaned to make the surface clean, so as not to affect the adhesion.
2. The bottom layer is sprayed. It is prepared in a certain proportion and stirred evenly to form the base material. It is sprayed with a large-diameter special spray gun. The coating amount is about 0.3-0.4kg/m². The first layer should not be too thick to maintain the rough effect of the surface. Layer bonding.
3. After the primer layer is dry (5-8h in high temperature and dry weather, generally more than 1d), the second layer and the third layer can be applied. The thickness of each layer is about 5-8mm, and the maximum does not exceed 10mm. Smooth with a trowel. The consumption is calculated according to the thickness of 10mm, and the consumption is about 7kg/m³.
4. The paint spraying interval should be controlled within 12-24h (at 20°C), and should not be too long or too short. It can be adjusted appropriately according to the weather conditions. The wet material that has been mixed with water should be used up within 1 hour. Suitable for construction environment temperature ≥ 5 °C, relative humidity ≤ 90%.
5. If there are other requirements, after the coating is dry, apply 1-2 decorative topcoats or other functional coatings.

Technical Index

state in the container	No agglomeration, homogeneous state after stirring
Dry density (kg/m ³)	≤700
drying time	Surface dry ≤24h
Acid resistance	After the 360h experiment, the coating did not crack, layer or fall off.
water resistance	After the 720h experiment, the coating did not crack, layer or fall off.
Moisture and heat resistance	After the 720h experiment, the coating did not crack, layer or fall off.
Freeze-thaw cycles	After 15 cycles, the coating did not crack, layer or fall off.
smoke toxicity	In line with GB/T20285-2006 regulations, smoke toxicity hazard classification ZAI level

Packing And Shipping

1. The validity period of the paint is half a year, and it can be used immediately after opening the package. The paint that is wet and agglomerated shall not be used; Net weight: 25 kg.
2. The consistency of slurry stirring should be moderate, not too thick or too thin, whichever is suitable for construction.
3. During the stirring and construction process, the rebounded slurry can be recovered and used in time, and the paint that is polluted and more than 2 hours old cannot be used again.
4. The construction method can be adjusted appropriately according to the design thickness and construction conditions of the coating.

DR-A3-YHD

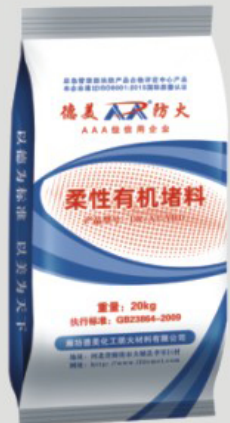
柔性有机堵料

产品介绍

DR-A3-YHD型有机防火堵料是具有耐火极限高、发烟量低等特点。该产品还具有良好的可塑性，施工、维修比较方便，并能与其他封堵材料（如防火包等）合并应用。
执行标准：GB23864-2009

应用范围

适用于工矿企业、高层建筑、造船、冶金、发电、邮电中电线、电缆等贯穿物穿墙时的孔洞封堵，以防止发生火灾时火焰由孔洞向邻室蔓延。



施工方法

1. 将有机防火堵料取出揉成团状，若气温过低，将堵料放在温度较高的环境中变软后，再进行施工。
2. 需封堵的孔洞，封堵前需要清扫干净。
3. 将堵料均匀的铺、嵌、填于孔洞缝隙中，对于较大的孔洞，可先用防火网作骨架，以增加强度。



技术指标

外观	胶泥状物体
密度	2.0×10 ³ kg/m ³
耐水性	≥3d, 无溶胀
耐油性	≥3d, 无溶胀
耐火性能	一级防火封堵材料，耐火极限≥180min

包装运输

1. 有机防火堵料用厚质塑料袋外加包装箱包装，适宜储存于阴凉干燥通风处，温度宜在0-35℃。
2. 本堵料属不燃、不爆、无毒、无味、无腐蚀性的安全可塑性固体物质，运输中应避免日晒雨淋。

FLEXIBLE ORGANIC PLUGGING

Product Description

DR-A3-YHD organic fire blocking material has the characteristics of high fire resistance limit and low smoke emission. The product also has good plasticity, convenient construction and maintenance, and can be combined with other blocking materials (such as fireproof bags, etc.).
Executive standard: GB23864-2009

Scope of application

It is suitable for plugging holes when passing through walls such as wires and cables in industrial and mining enterprises, high-rise buildings, shipbuilding, metallurgy, power generation, post and telecommunications, so as to prevent the flame from spreading from the hole to the adjacent room in the event of a fire.

Construction Method

1. Take out the organic fire blocking material and knead it into a dough. If the temperature is too low, place the blocking material in a higher temperature environment and then start construction.
2. The holes that need to be plugged should be cleaned up before plugging.
3. Evenly spread, embed, and fill the blocking material in the gaps of the holes. For larger holes, fire nets can be used as the skeleton first to increase the strength.

Technical Index

Exterior	Cement-like objects
density	2.0 × 10 ³ kg/m ³
Water resistance	≥3d, no swelling
Oil resistance	≥3d, no swelling
Fire resistance	Class 1 fireproof sealing material, fire resistance limit ≥180min

Packing And Shipping

1. Organic fire blocking materials are packed in thick plastic bags and boxes, suitable for storage in a cool, dry and ventilated place, and the temperature should be 0-35℃.
2. This blocking material is a non-flammable, non-explosive, non-toxic, odorless, non-corrosive, safe and plastic solid material, and should be avoided from sunlight and rain during transportation.

DB-A3-FHB

阻火包

产品介绍

DB-A3-FHB型防火包是我公司根据国家标准研制成功的新型防火配套耐火材料。该产品可根据用户不同的要求制成各种形状的防火墙、防火层，亦可封堵需要做防火处理的孔洞。用防火包做隔墙，取代了过去用耐火砖、矿渣棉、陶瓷棉等材料，与它们相比，防火包有显著的隔热效果。
执行标准：GB23864-2009

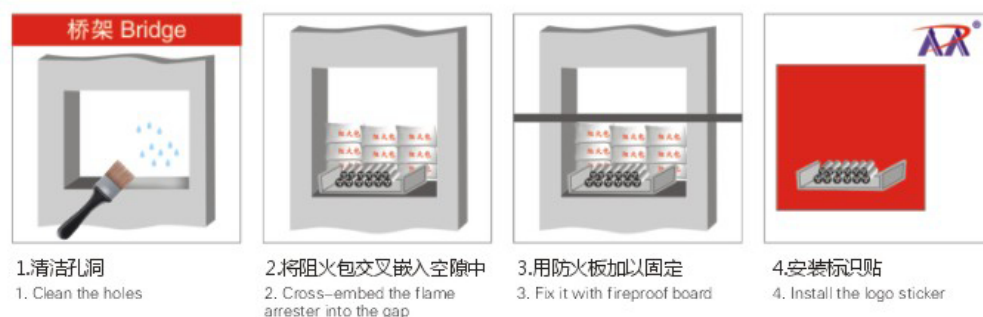
应用范围

适用于电力、电信、邮政、化工、工矿、企业、建筑当中、电缆、油管、风管、气管、金属管道等贯穿物穿过隔墙或隔层时所形成的空洞的封堵。



施工方法

电缆竖井，用阻火网、阻火板或铁板做支垫，将防火包平铺于垫上，垒成隔层，电缆隧道和电缆沟根据国内电缆隧道和电缆竖井的有关间距规定，在需要设置隔墙处，将防火包垒成防火墙即可。必要时可用角钢做成支架以方便封堵。



技术指标

外观	包体完整，无破损
表观密度	1.2×10 ³ kg/m ³
耐水性	≥3d，内装材料无明显变化，包体完整无破损。
耐油性	≥3d，内装材料无明显变化，包体完整无破损。
抗跌落性	5m高处自由落在混凝土水平面上，包体无破损。
耐火性能	一级防火封堵材料，耐火极限≥180min。

包装运输

- 1、防火包用塑料袋外附防火布袋，再用编织袋包装，储存于阴凉干燥处。
- 2、运输时按普通安全固体物质运输，防止雨淋和暴晒。

FIRESTOP PACKAGE

Product Description

DB-A3-FHB type fireproof bag is a new type of fireproof supporting refractory material successfully developed by our company according to national standards. The product can be made into various shapes of firewalls and fireproof layers according to different requirements of users, and can also block holes that need fireproof treatment. The use of fireproof bags as partition walls has replaced the use of refractory bricks, slag wool, ceramic wool and other materials in the past. Compared with them, fireproof bags have a significant thermal insulation effect.
Executive standard: GB23864-2009

Scope of application

It is suitable for plugging cavities formed when penetrations such as electricity, telecommunications, postal services, chemicals, industrial and mining, enterprises, buildings, cables, oil pipes, air ducts, gas pipes, metal pipes, etc. pass through the partition wall or partition.

Construction Method

For cable shafts, use fire-resisting nets, fire-resisting boards or iron plates as backing pads, and spread the fire-proof package on the pads to form a barrier. The cable tunnels and cable trenches are in accordance with the relevant domestic cable tunnels and cable shafts. Set the partition wall and make the fireproof package into a firewall. When necessary, angle steel can be used to make a bracket to facilitate sealing.

Technical Index

Exterior	The package body is complete without damage
Apparent density	1.2 × 10 ³ kg/m ³
Water resistance	≥3d, there is no obvious change in the inner material, and the package body is intact and undamaged.
Oil resistance	≥3d, there is no obvious change in the inner material, and the package body is intact and undamaged.
Drop resistance	It falls freely on the concrete level at a height of 5m, and the package body is undamaged.
Fire resistance	Class 1 fireproof sealing material, fire resistance limit ≥ 180min.

Packing And Shipping

1. The fireproof bag is wrapped in a plastic bag with a fireproof cloth bag, and then packed in a woven bag and stored in a cool and dry place.
2. When transporting, it should be transported as ordinary safe solid material to prevent rain and sun exposure.

DW-A3-WHD

无机堵料

产品介绍

DW-A3-WHD型无机防火堵料是我公司根据国家标准研制成功的新型产品，该产品由无机材料加化学助剂混合而成，呈粉末状，具有强度高、耐水、耐腐蚀、无气味、施工方便等特点。执行标准：GB23864-2009

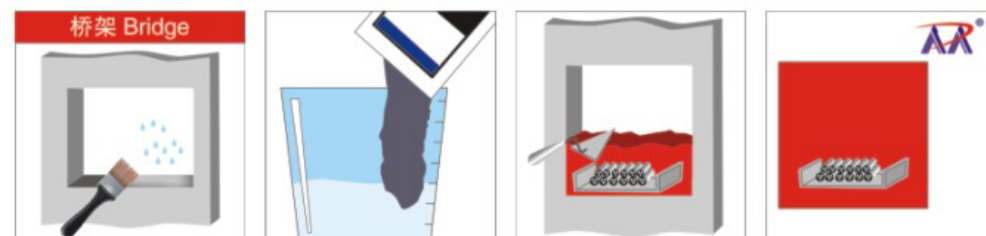
应用范围

DW-A3-WHD型无机防火堵料适用于电力、冶金、化工、建筑等行业中电缆穿孔洞等开口的防火封堵。



施工方法

需封堵的孔洞，封堵前要清扫干净。将无机防火堵料取出，加适量水，搅拌均匀，填于孔洞内，短时间内即可速固成型，施工时应根据需量调制，以免造成浪费。



1. 清洁孔洞
1. Clean the holes
2. 混合搅拌无机堵料
2. Mixing and stirring inorganic blocking materials
3. 砌填灰泥
3. Lay and fill plaster
4. 安装标识贴
4. Install the logo sticker

技术指标

外观	粉末状固体，无结块
表观密度	$\leq 2.0 \times 10^3 \text{kg/m}^3$
耐水性	$\geq 3\text{d}$ ，不溶胀，不开裂
耐油性	$\geq 3\text{d}$ ，不溶胀，不开裂
抗压强度	$0.8\text{Mpa} \leq R \leq 6.5\text{Mpa}$
初凝时间	$10\text{min} \leq t \leq 45\text{min}$
耐火性能	一级防火封堵材料，耐火极限 $\geq 60\text{min}$ 。

包装运输

- 1、无机堵料用编织袋包装，每袋规格为25kg，本产品宜储存于阴凉干燥通风处。
- 2、本堵料属不燃、不爆、无毒、无味、无腐蚀性的物质，运输中应避免日晒雨淋。

INORGANIC PLUGGING

Product Description

DW-A3-WHD inorganic fire blocking material is a new product successfully developed by our company according to national standards. The product is mixed with inorganic materials and chemical additives. It is in powder form and has the characteristics of high strength, water resistance, corrosion resistance, odorless, and convenient construction. Executive standard: GB23864-2009

Scope of application

DW-A3-WHD inorganic fire blocking material is suitable for fire blocking of openings such as cable penetration holes in electric power, metallurgy, chemical industry, construction and other industries.

Construction Method

Holes that need to be plugged should be cleaned before plugging. Take out the inorganic fireproof blocking material, add appropriate amount of water, stir evenly, fill it in the hole, and it can be quickly solidified in a short time. It should be adjusted according to the demand during construction to avoid waste.

Technical Index

Exterior	Powdery solid, no lumps
Apparent density	$\leq 2.0 \times 10^3 \text{kg/m}^3$
Water resistance	$\geq 3\text{d}$, no swelling, no cracking
Oil resistance	$\geq 3\text{d}$, no swelling, no cracking
Compressive strength	$0.8\text{Mpa} \leq R \leq 6.5\text{Mpa}$
Initial setting time	$10\text{min} \leq t \leq 45\text{min}$
Fire resistance	Class 1 fireproof sealing material, fire resistance limit $\geq 60\text{min}$.

Packing And Shipping

1. The inorganic blocking material is packed in woven bags, each bag is 25kg, and this product should be stored in a cool, dry and ventilated place.
2. This blocking material is non-flammable, non-explosive, non-toxic, odorless and non-corrosive. Sun and rain should be avoided during transportation.

DM-A3-DM-02

阻火模块

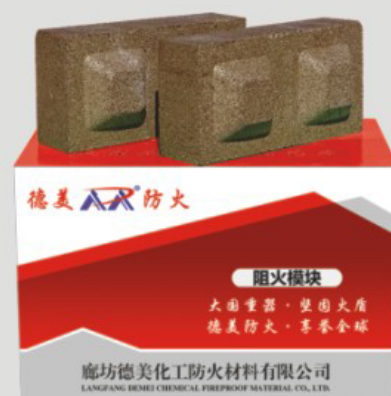
产品介绍

DM-A3-DM-02型阻火模块是我公司根据GB23864-2009（防火封堵材料）国家标准，在其它防火封堵产品优点的基础上，再结合现场实际情况和施工安装经验开发研制的新型防火封堵产品。

执行标准：GB23864-2009

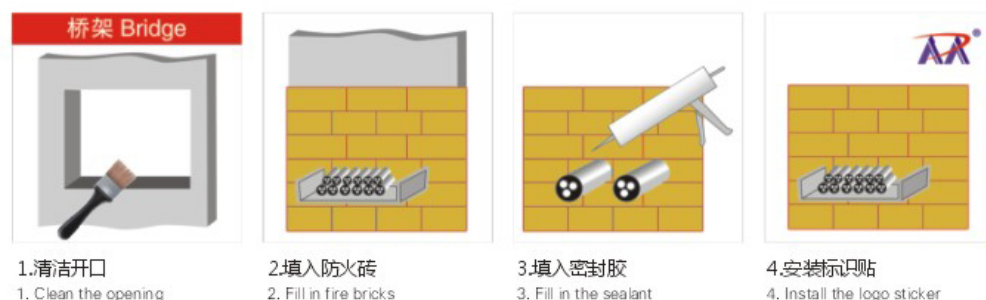
应用范围

主要应用于冶金、电力、通信、石油化工、工业与民用建筑行业的电缆沟、电缆桥架、电缆横井、电缆竖井、电缆穿墙孔洞、配电柜底盘等地方的电线、电缆、电器的防火封堵。



施工方法

清理干净需要封堵孔洞内的杂物，将孔内的电缆分层整理平整，取出阻火模块从孔洞的一侧以砌砖的形式堆砌起来，遇到电缆时用专用工具把阻火模块的一边切割成电缆的形状，使用电缆和阻火模块紧紧的咬合在一起，电缆和阻火模块之间的缝隙可用填缝密封胶和柔性有机堵料封堵，堆砌好以后以对面不见光为宜。



技术指标

外观	固体表面平整
抗压强度	≥0.1Mpa
表观密度	≤2.0×10 ³ kg/m ³
耐火性能	一级防火封堵材料≥3h

包装运输

- 1、采用纸箱包装，存储于阴凉、通风、干燥的环境中。
- 2、禁止雨淋，防暴晒，运输中严禁磕碰。
- 3、产品有效贮存期为1年。

FIRE RESISTANCE MODULE

Product Description

DM-A3-DM-02 type fire blocking module is developed by our company according to the national standard GB23864-2009 (fire blocking materials), on the basis of the advantages of other fire blocking products, combined with the actual situation on site and construction and installation experience. New fire blocking products.
Executive standard: GB23864-2009

Scope of application

Mainly used in metallurgy, electric power, communication, petrochemical, industrial and civil construction industries, such as cable trenches, cable trays, cable horizontal wells, cable shafts, cable penetration holes, power distribution cabinet chassis, etc. Blocking.

Construction Method

Clean up the debris in the hole that needs to be plugged, arrange the cables in the hole layer by layer, take out the fire retardant module and stack it in the form of bricks from one side of the hole, and use special tools when encountering cables. One side is cut into the shape of the cable, and the cable and the fire retardant module are tightly snapped together. The gap between the cable and the fire retardant module can be sealed with caulking sealant and flexible organic blocking material. Should.

Technical Index

Exterior	Flat solid surface
Compressive strength	≥0.1Mpa
Apparent density	≤2.0 × 10 ³ kg/m ³
Fire resistance	Class 1 fireproof sealing material ≥3h

Packing And Shipping

1. Packed in a carton and stored in a cool, ventilated and dry environment.
2. It is forbidden to rain, prevent exposure to sunlight, and it is strictly forbidden to bump during transportation.
3. The effective storage period of the product is 1 year.

高分子防凝露封堵剂

产品介绍

高分子防潮封堵剂的研发主要是为了解决灌封胶与金属的粘接问题及用于户外的电器产品复杂的操作工艺，这一款操作简单，无需抽真空，直接两个组分搅匀灌注就可以，而且固化时间快。

应用范围

专门用于电力、冶金、石化、化工、建筑等行业的电缆穿楼板、夹层、桥架、穿墙孔洞封堵，构筑电缆隧道沟内阻火墙等。



产品特点

操作简单：施工操作简单，施工环境要求低，不受使用时间限制；
渗透强度：防水渗透强度高，具有较高的断裂伸长率，同时能保持极高的强度；
防护性能：防漏电起痕和防电腐蚀性好；
阻燃性能：阻燃性达到所规定的级别性能；
耐使用寿命长：可达到10年以上的使用周期。

操作方法

1、使用前，首先把A组份充分搅拌均匀，既可以使胶体流动性比静置久直接使用时好，也可以使沉降黑色颜料充分混合均匀；再将B组份充分摇匀，使B剂成分中的粘接成分更加均匀。
2、混合时，应遵守A组份：B组份= 10：1的重量比。
3、本品为常温固化产品，灌注好后置于室温固化，基本固化后进入下一道工序，深度固化需要12小时。环境温度和湿度对固化有较大影响，如环境湿度过低，容易影响材料的粘接性能，可考虑在A组份内按比例添加千分之一的水分，或在环境内放置加湿器。需注意的是，加水份的同时材料可操作的时间会相应缩短。

包装运输

27.5kg一组 (A 25KG + B 2.5KG)
220kg一组 (A 200KG + B 20KG)
储存期12个月；室温保存，禁止暴晒，物流正常运输。

POLYMER ANTI-CONDENSATION BLOCKING AGENT

Product Description

The research and development of polymer moisture-proof plugging agent is mainly to solve the problem of bonding between potting glue and metal and the complex operation process of outdoor electrical products. This one is simple to operate, no need to vacuum, and the two components are directly mixed. It can be poured, and the curing time is fast.

Scope of application

Specially used in electric power, metallurgy, petrochemical, chemical, construction and other industries for cable penetration through floors, interlayers, bridges, wall penetrations, and construction of fire resistance walls in cable tunnel trenches.

Product Features

Simple operation: the construction operation is simple, the construction environment requirements are low, and it is not limited by the use time; Penetration strength: high waterproof permeability strength, high elongation at break, while maintaining extremely high strength; Protection performance: good anti-leakage tracking and anti-corrosion; Flame retardant performance: The flame retardant performance reaches the specified level performance; Durable and long service life: It can reach a service cycle of more than 10 years.

How to operate

1. Before use, firstly stir the component A fully evenly, which can not only make the colloid fluidity better than when it is left standing for a long time and use it directly, but also can fully mix the settled black pigment; The adhesive component in the agent component is more uniform.
2. When mixing, the weight ratio of component A: component B = 10:1 should be observed.
3. This product is a room temperature curing product. After pouring, it will be cured at room temperature. After basic curing, it will enter the next process. It takes 12 hours for deep curing. Ambient temperature and humidity have a great influence on curing. For example, if the ambient humidity is too low, it will easily affect the bonding performance of the material. Consider adding one-thousandth of the water in component A in proportion, or place a humidifier in the environment. It should be noted that the working time of the material will be shortened accordingly when adding water.

Packing and shipping

27.5kg group (A 25KG + B 2.5KG)
220kg group (A 200KG + B 20KG)
Storage period of 12 months; stored at room temperature, no exposure to sunlight, normal logistics and transportation.

DC-A2-WJB-01

防火封堵板材（防火板）

产品介绍

DC-A2-WJB-01型无机防火隔板也称防火隔板或不燃阻火板等。此板是由多种不燃材料经科学调配压制而成，具有阻燃性好，机械强度高，不爆、耐水、油、耐化学防腐性强、无毒等特点。执行标准：GB23864-2009

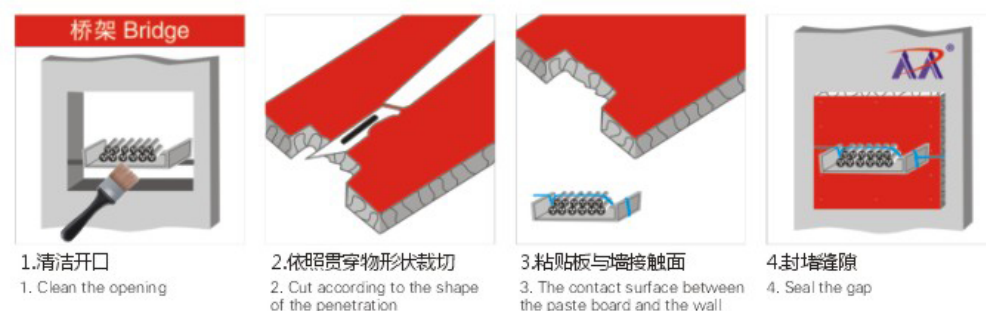
应用范围

主要适用于电缆在支架或桥架上敷设时的防火保护和耐火分隔，大量应用在国内各类发电厂、化工企业、钢铁冶炼企业，矿山等电缆密集场所的电缆工程的防火阻燃。



施工方法

无机防火隔板产品可采用切割锯进行分切，根据施工现场需要制成所需用的形状，装配时采用钢支架或膨胀螺栓固定，钢架要用钢结构防火涂料涂刷。也可用本无机防火隔板制成各种形状的电缆防火槽盒，板缝隙处用无机防火堵料填平。可制成防火角配合防火板使用。



技术指标

外观	板材表面平整
抗弯强度	≥0.10Mpa
耐水性	≥3d，不溶胀，不开裂。
耐油性	≥3d，不溶胀，不开裂。
耐火性能	一级防火封堵材料≥60min

包装运输

- 1、本品应储存在通风、干燥的库房内，防止雨淋暴晒。
- 2、产品有效贮存期为1年。

FIRE BLOCKING BOARD (FIREPROOF BOARD)

Product Description

DC-A2-WJB-01 type inorganic fire barrier is also called fire barrier or non-combustible fire retardant board. This board is made of a variety of non-combustible materials by scientifically blending and pressing. It has the characteristics of good flame retardancy, high mechanical strength, no explosion, water, oil, chemical corrosion resistance, and non-toxicity. Executive standard: GB23864-2009

Scope of application

It is mainly used for fire protection and fire separation when cables are laid on supports or bridges. It is widely used in various domestic power plants, chemical enterprises, and steel smelting enterprises. Fire and flame retardant for cable engineering in cable-intensive places such as mines.

Construction Method

Inorganic fireproof partition products can be cut with a cutting saw, and made into the required shape according to the needs of the construction site. When assembling, it is fixed with steel brackets or expansion bolts, and the steel frame should be painted with steel structure fireproof paint. The inorganic fireproof clapboard can also be used to make various shapes of cable fireproof groove boxes, and the gaps of the board are filled with inorganic fireproof plugging materials. It can be made into fireproof corners to be used with fireproof boards.

Technical Index

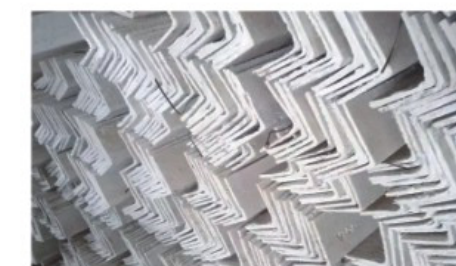
Exterior	Flat surface
Bending strength	≥0.10Mpa
Water resistance	≥3d, no swelling, no cracking.
Oil resistance	≥3d, no swelling, no cracking.
Fire resistance	Class 1 fireproof sealing material ≥60min

Packing And Shipping

1. This product should be stored in a ventilated and dry warehouse to prevent rain and sun exposure.
2. The effective storage period of the product is 1 year.



电缆防火槽盒 Cable fire box



防火角 Fire corner

DC-A3-TB-03

防火封堵板材（防火涂层板）

产品介绍

防火涂层板的重量轻、密度小，因此运输和施工方便，产品适用于石油、通讯、电力、建筑等多种行业，用于电缆的防火保护。安装产品时需要保证开口清洁，表面干燥，电缆和电缆桥架要干燥、没有尘土、没有油污。
执行标准：GB23864-2009

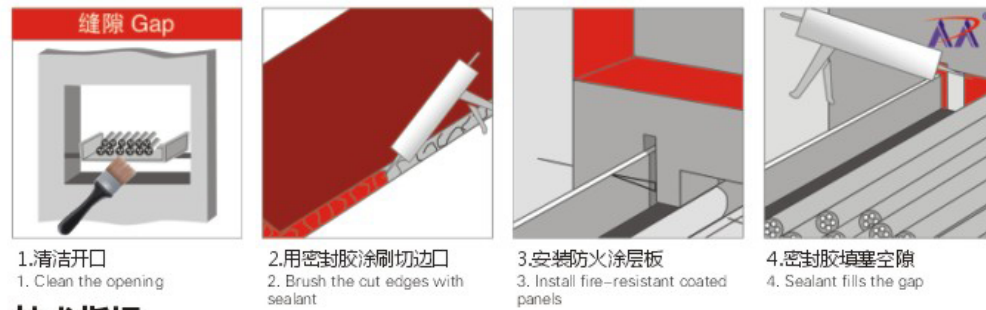


应用范围

电气盘柜孔洞、电缆穿墙孔洞；单根电缆、电缆束、电缆桥架的穿越；风管的穿越；可燃性管道和不可燃性管道的穿越；大型开口的封堵。

施工方法

1. 用米尺量好待封堵孔洞尺寸，用刀锯尽可能将板裁切成与孔洞和贯穿物尺寸贴合的形状。
2. 将弹性防火密封胶涂敷在贯穿物将与板接触的表面。
3. 用弹性防火密封胶涂刷在孔周边与板周边表面。
4. 将裁切好的板推进开孔，与基材表面齐平，用弹性防火密封胶涂刷封边。
5. 用矿棉填塞遗漏的空隙，再用弹性防火密封胶封堵。



技术指标

外观	板材表面平整
抗弯强度	≥0.10Mpa
耐水性	≥3d, 不溶胀, 不开裂。
耐油性	≥3d, 不溶胀, 不开裂。
耐冻融循环性	≥15次, 不开裂, 不粉化。
耐湿热性	≥120h, 不溶胀, 不开裂。

包装运输

1. 存储于阴凉通风，干燥环境中。
2. 禁止雨淋暴晒，防磕碰。

FIRE BLOCKING BOARD (FIREPROOF COATING BOARD)

Product Description

The fireproof coated board is light in weight and low in density, so it is convenient for transportation and construction. The product is suitable for various industries such as petroleum, communication, electric power, and construction, and is used for fire protection of cables. When installing the product, it is necessary to ensure that the openings are clean, the surface is dry, and the cables and cable trays are dry, free of dust and oil.
Executive standard: GB23864-2009

Scope of application

Holes in electrical panel cabinets, holes through walls for cables; crossing of single cables, cable bundles, and cable trays; crossing of air ducts; crossing of flammable pipes and non-combustible pipes; blocking of large openings.

Construction Method

1. Use a meter to measure the size of the hole to be blocked, and use a knife saw to cut the board into a shape that fits the size of the hole and the penetrating object as much as possible.
2. Coat the elastic fireproof sealant on the surface of the penetration that will contact the board.
3. Use elastic fireproof sealant to paint around the hole and the surface of the board.
4. Push the cut board into the hole, flush with the surface of the substrate, and paint the edge with elastic fireproof sealant.
5. Fill the missing gaps with mineral wool, and then seal with elastic fireproof sealant.

Technical Index

Exterior	Flat surface
Bending strength	≥0.10Mpa
Water resistance	≥3d, no swelling, no cracking.
Oil resistance	≥3d, no swelling, no cracking.
Freeze-thaw cycle resistance	≥15 times, no cracking, no chalking.
Humidity and heat resistance	≥120h, no swelling, no cracking.

Packing And Shipping

1. Store in a cool, ventilated, dry environment.
2. It is forbidden to rain and expose to the sun, and prevent bumps.

DJ-A3-DM-06

防火密封胶（弹性）

产品介绍

DJ-A3-DM-06弹性防火密封胶是一种低模量、单组份、水性防火密封胶，其特点是具有良好的柔韧性、粘接性，遇火燃烧后形成致密的网状结构，能有效阻止火焰和热量传递。

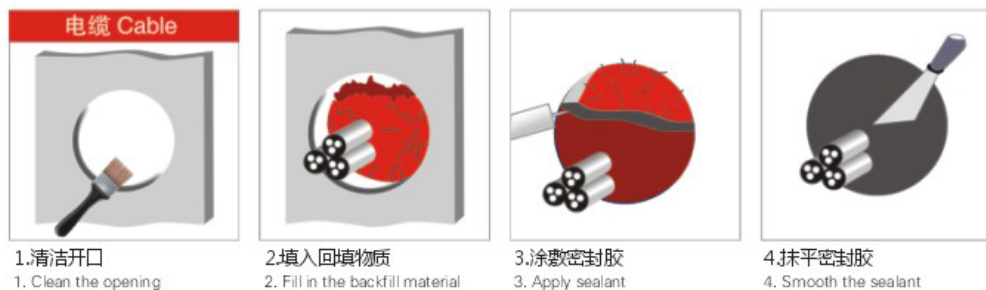
应用范围

位移的楼板缝隙、墙嵌缝、机械管道、通风管道、保温管道等孔洞的表面封堵；防火涂层板封堵缝隙的粘接；墙顶与楼板的接缝；暴露在高温下的连接缝对防烟有严格要求的封堵；门框连接缝的封堵。



施工方法

- 1、清洁开口。准备涂敷的接合面应清除散落的碎物、灰尘、油渍、霜冻、蜡等，并保持干燥。
- 2、塞入矿棉或其它背衬材料。
- 3、涂覆于填充物上。
- 4、在形成表面硬化前使用抹子抹平，可沾水抹平表面。
- 5、如果需要，在防火封堵部位旁边的显眼位置安装标识贴，以作为后期维护的辨别标记。



技术指标

外观	膏状物质
表观密度	$\leq 2.0 \times 10^3 \text{kg/m}^3$
腐蚀性	$\geq 7\text{d}$ ，不应出现锈蚀、腐蚀现象。
耐水性	$\geq 3\text{d}$ ，不溶胀、不开裂。
耐碱性	$\geq 3\text{d}$ ，不溶胀、不开裂。
耐火完整性	2.00h，试件未丧失完整性。

包装运输

- 1、弹性防火密封胶为普通货物运输。
- 2、存储于0-35°C，阴凉、通风、干燥处，禁止暴晒，有效贮存期为6个月。

FIREPROOF SEALANT (ELASTIC)

Product Description

DJ-A3-DM-06 elastic fireproof sealant is a low modulus, one-component, water-based fireproof sealant, which is characterized by good flexibility and adhesion, and forms a dense network structure after burning in fire, can effectively prevent the flame and heat transfer.

Scope of application

Surface sealing of displaced floor gaps, wall caulking, mechanical ducts, ventilation ducts, thermal insulation ducts, etc.; bonding of fire-resistant coating panels to seal gaps; joints between wall tops and floor slabs; joints exposed to high temperatures Blocking with strict requirements for smoke prevention; blocking of joints of door frames.

Construction Method

1. Clean the opening. Joint surfaces to be coated should be free of loose debris, dust, oil, frost, wax, etc., and kept dry.
2. Insert mineral wool or other backing materials.
3. Apply on the filler.
4. Use a trowel to smooth the surface before forming the surface hardening, and the surface can be smoothed with water.
5. If necessary, install identification stickers in conspicuous positions next to the fire blocking parts as identification marks for later maintenance.

Technical Index

Exterior	paste substance
Apparent density	$\leq 2.0 \times 10^3 \text{kg/m}^3$
Corrosive	$\geq 7\text{d}$, there should be no rust and corrosion.
water resistance	$\geq 3\text{d}$, no swelling, no cracking.
Alkali acid resistance	$\geq 3\text{d}$, no swelling, no cracking.
Fire Integrity	2.00h, the test piece did not lose its integrity.

Packing And Shipping

1. Elastic fireproof sealant is used for general cargo transportation.
2. Store at 0-35°C, in a cool, ventilated and dry place, and prohibit exposure to the sun. The effective storage period is 6 months.

DJ-A3-DM-08

防火密封胶 (膨胀型)

产品介绍

DJ-A3-DM-08防火密封胶是一种阻燃、膨胀型防火密封胶，其特点是具有良好的阻燃性，且遇火体积膨胀5倍以上（无约束），能有效阻止火焰和热量传递。

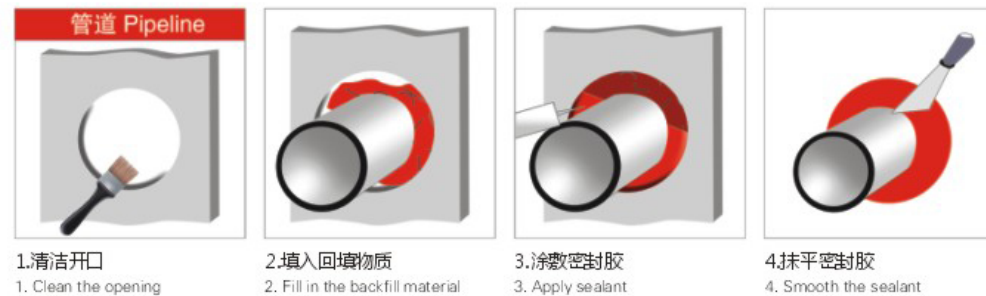
应用范围

竖井、盘柜、电缆穿墙；
带保温层的钢管、铜管贯穿处的缝隙；
电缆束贯穿处缝隙；
塑料管线(≤50mm)贯穿处的缝隙；HVAC 风管贯穿处的间隙。



施工方法

- 1、清洁开口，准备涂敷的表面应清除散落的碎物、灰尘、油渍、霜冻和蜡，并保持干燥。
- 2、遵照相关标准的测试报告要求填塞背衬材料（如矿棉）至最小厚度要求，并留下足够的厚度以便涂敷，以获得相应的防火时效。
- 3、防火密封胶的涂敷：为了得到所需的防火效果，请涂敷规定的厚度，确定都有接触到管材基材表面，以便得到最大的粘着力。
- 4、抹平防火密封胶：为了得到较好的效果，请立刻抹平外表。对于过量的胶泥，在其硬化之前，可用工具沾水清除。
- 5、请保持施工完毕后的接口48小时不挠动，以便其完成固化程序。
- 6、如果需要，在防火封堵部位旁边的显眼位置，安装标识贴，以作为后期维护的辨别标记。



技术指标

外观	膏状物质
表观密度	≤2.0×10 ³ kg/m ³
腐蚀性	≥7d，不应出现锈蚀、腐蚀现象。
耐水性	≥3d，不溶胀、不开裂。
耐碱性	≥3d，不溶胀、不开裂。
耐火完整性	3.0h，试件未丧失完整性。

FIREPROOF SEALANT (INTUMESCENT)

Product Description

DJ-A3-DM-08 fireproof sealant is a flame retardant and intumescent fireproof sealant. Its characteristics are that it has good flame retardancy, and its volume expands more than 5 times in case of fire (unconstrained), which can effectively prevent flame and heat transfer.

Scope of application

Shafts, panels, cables through walls;
Gap at the penetration of steel pipe and copper pipe with thermal insulation layer;
Gap at cable bundle penetration;
The gap where the plastic pipeline (≤50mm) penetrates; the gap where the HVAC duct penetrates.

Construction Method

1. Clean openings, surfaces to be coated should be free of loose debris, dust, oil, frost and wax and kept dry.
2. Fill the backing material (such as mineral wool) to the minimum thickness requirement in accordance with the test report requirements of the relevant standards, and leave enough thickness for coating to obtain the corresponding fire protection time.
3. Coating of fireproof sealant: In order to obtain the required fireproof effect, please apply the specified thickness, and make sure that all of them are in contact with the surface of the pipe substrate, so as to obtain the maximum adhesion.
4. Smooth the fireproof sealant: In order to get better effect, please smooth the surface immediately. Excess mastic can be removed with a tool dampened with water before it hardens.
5. Please keep the interface after the construction is completed for 48 hours without moving, so that it can complete the curing process.
6. If necessary, install identification stickers in conspicuous positions next to the fire blocking parts as identification marks for later maintenance.

Technical Index

Exterior	paste substance
Apparent density	≤2.0×10 ³ kg/m ³
Corrosive	≥7d, there should be no rust and corrosion.
water resistance	≥3d, no swelling, no cracking.
Alkali acid resistance	≥3d, no swelling, no cracking.
Fire Integrity	3.0h, the test piece did not lose its integrity.

DT-A3-CD-09

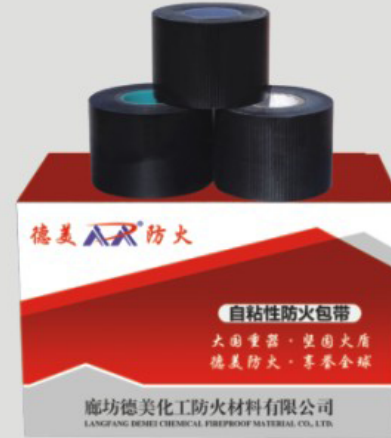
自粘性防火包带

产品介绍

自粘性防火包带也称电缆用阻燃包带，本产品具有高阻燃、自粘、抗拉等特性。填补了国内在电缆及通讯光缆要求高度防火阻燃领域的空白。是用于电缆或通讯光缆防火阻燃的新型自粘性带状高科技产品。

应用范围

适用于各发电厂（站）、变电所、输变电工程、钢铁厂、化工厂、高层建筑、地铁、煤矿、通讯等各种场所包含的管井、沟槽、隧道、架空等环境条件敷设的任何形式电缆或通讯光缆的防火阻燃工程。



产品特性

- 1、自粘性阻燃包带以1/2或1/3(缠绕2层或3层，缠绕3层时防火阻燃性能更好)塔接绕包在电缆、通讯光缆的外表面，当电缆、通讯光缆起火时，包带形成隔热阻氧的碳化层对所缠绕的电缆起到保护，从而阻止火焰沿电缆扩张燃烧。
- 2、当外界环境起火时，自粘性阻燃包带可保护电缆、通讯光缆在一定时间内不受损害，保障输电及通讯信号的正常运行。
- 3、自粘性防火包带在生产和使用中无毒、无味、无污染，由于具有自粘性，施工使用方便、快捷，不影响工期，一步到位，所以一劳永逸。
- 4、自粘性防火包带施工厚度合理，与电缆、通讯光缆贴合紧密，对电缆、通讯光缆载流无影响。
- 5、自粘性防火包带的最大特点寿命长，该产品使用寿命与电缆、通讯光缆同步。实际上远远超过了电缆或通讯光缆的使用寿命。在自然室内状态下存放，贮存35年以上不会出现质量问题，可正常使用。
- 6、自粘性防火包带通过GB12666.5规定的A类阻燃标准，也就是说它可以把非阻燃电缆“变”成A类高阻燃电缆。
- 7、自粘性防火包带解决了我国在电缆防火阻燃领域的高难课题，它的防火阻燃性能远远超过普通电缆防火涂料，是普通电缆防火涂料都无法比拟的电缆、通讯光缆用防火阻燃材料。是电缆、通讯光缆防火阻燃材料的革新。

技术指标

包带宽度	60±1.5
包带厚度	0.7±0.1
外观质量	表面平整不分层、不鼓泡、不凹凸
氧指数	> 45%
阻燃性	≤2.50m

包装运输

- 1、采用纸箱包装。
- 2、普通货物运输，避免日晒、雨淋、存储于阴凉、通风、干燥环境中。

SELF-ADHESIVE FIREPROOF TAPE

Product Description

Self-adhesive fire-resistant tape is also called flame-retardant tape for cables. This product has the characteristics of high flame retardancy, self-adhesion and tensile strength. It fills the gap in the field of cables and communication optical cables that require a high degree of fire and flame retardant. It is a new type of self-adhesive tape high-tech product used for fire-retardant and flame-retardant cables or communication optical cables.

Scope of application

It is suitable for the environmental conditions of pipe wells, trenches, tunnels, overheads and other places in various power plants (stations), substations, power transmission and transformation projects, steel plants, chemical plants, high-rise buildings, subways, coal mines, communications and other places. Fire and flame retardant engineering of laying any form of cable or communication optical cable.

Product Features

1. The self-adhesive flame retardant tape is wrapped around the outer surface of the cable and the communication optical cable with 1/2 or 1/3 (winding 2 or 3 layers, and the fire retardant performance is better when winding 3 layers). When a cable or a communication optical cable catches fire, the tape forms a carbonized layer of thermal insulation and oxygen resistance to protect the wound cable, thereby preventing the flame from expanding and burning along the cable.
2. When the external environment catches fire, the self-adhesive flame-retardant tape can protect the cable and the communication optical cable from damage within a certain period of time, and ensure the normal operation of the power transmission and communication signals.
3. The self-adhesive fireproof tape is non-toxic, odorless and non-polluting in production and use. Because of its self-adhesiveness, the construction and use are convenient and fast, without affecting the construction period, and it can be done in one step, so once and for all.
4. The construction thickness of the self-adhesive fireproof tape is reasonable, and it is closely attached to the cable and the communication optical cable, and has no effect on the current carrying of the cable and the communication optical cable.
5. The biggest feature of self-adhesive fireproof tape is long service life. The service life of this product is synchronized with that of cables and communication optical cables. In fact, it far exceeds the service life of the cable or communication cable. Stored in a natural indoor state, there will be no quality problems after storage for more than 35 years, and it can be used normally.
6. The self-adhesive fireproof tape has passed the Class A flame retardant standard specified in GB12666.5, which means that it can "change" non-flame retardant cables into Class A high flame retardant cables.
7. The self-adhesive fire-resistant tape solves the difficult problem in the field of cable fire-retardant and flame-retardant in our country. Its fire-retardant and flame-retardant performance far exceeds that of ordinary cable fire-retardant coatings. Flame retardant material. It is the innovation of fire-retardant and flame-retardant materials for cables and communication optical cables.

Technical Index

Band width	60±1.5
Tape thickness	0.7±0.1
Appearance Quality	The surface is flat, no delamination, no bubbling, no unevenness
Oxygen Index	> 45%
Flame retardant	≤2.50m

Packing And Shipping

1. Packed in carton.
2. For general cargo transportation, avoid sunlight, rain, and store in a cool, ventilated and dry environment.

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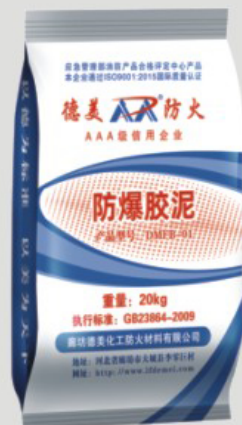
防爆胶泥

产品介绍

是由德国几种高分子聚合物，添加剂，增塑剂等经过特殊工艺配置而成，是一种深黑色，无溶剂（无味），环保，对人体无害的无规则外型的胶泥状物。

应用范围

广泛应用于国防、石油，化工，加油站，变电站，危险性仓库及其它方面的爆炸危险场所，作为显管或电缆配线工程的防爆隔离密封之用。可用于包导线，接头，电缆，管材，地线等，防止火灾。



产品优点

颜色：深黑发亮，比其它灰白色防爆胶有更好的抗冲击能力，更能吸收爆炸中冲击波。
性能：有一定的阻燃性和耐油性。粘覆能力强，有防震性，对设备有保护作用。
比重：胶的比重较大，与其它防爆胶相比，在同一工程施工时可以节省更多的材料。
品质：无味，无毒，环保，可以让客户更放心的使用。

技术指标

耐热度	90℃，不流淌，不起泡
耐低温	-50℃，不变化
可塑性	5-10mm
密封性	施加50Kpa的水压，保证一分钟，不漏水，无位移
防爆性	配32%混合氩气做传爆试验，结果不传爆
介电强度	将样品制成2.5毫米的试件耐压，4KV交流电压，1分钟未击穿
阻燃性	用明火烧胶泥，着火极慢
耐油性	68号机油浸泡一个月，不流散，不变形
颜色	深黑发亮

包装运输

- 1、防爆胶泥用纸箱包装，适宜储存于阴凉干燥通风处，温度宜在0-45℃。
- 2、本产品属不燃、不爆、无毒、无味、无腐蚀性的安全可塑性固体物质，运输中应避免日晒雨淋。
- 3、产品有效贮存期为6个月。

EXPLOSION-PROOF CEMENT

Product Description

It is made of several German polymers, additives, plasticizers, etc. through a special process. It is a deep black, solvent-free (odorless), environmentally friendly, and harmless to the human body.

Scope of application

Widely used in national defense, petroleum, chemical industry, gas stations, substations, dangerous warehouses and other explosion-hazardous places, as the explosion-proof isolation and sealing of display pipes or cable wiring projects. Can be used to wrap wires, connectors, cables, pipes, ground wires, etc. to prevent fire.

Product Advantages

Color: dark black and shiny, better impact resistance than other off-white explosion-proof adhesives, and can absorb explosive shock waves better.
Performance: a certain degree of flame retardancy and oil resistance. Strong adhesion, shockproof, and protective effect on equipment.
Specific gravity: The specific gravity of the glue is large. Compared with other explosion-proof glues, more materials can be saved during the same project construction.
Quality: tasteless, non-toxic, environmentally friendly, so that customers can use it with more confidence.

Technical Index

Heat resistance	90℃, no flow, no foam
Low temperature resistance	-50℃, no change
plasticity	5-10mm
Tightness	Apply 50Kpa water pressure to ensure one minute, no water leakage, no displacement
Explosion-proof	With 32% mixed argon gas for the explosion test, the result does not propagate
Dielectric strength	The sample is made into a test piece of 2.5 mm withstand voltage, 4KV AC voltage, no breakdown in 1 minute
Flame retardant	Use an open flame to burn the cement, it catches very slowly
Oil resistance	No. 68 engine oil is soaked for one month, does not stray or deform
colour	Dark black and shiny

Packing And Shipping

1. Explosion-proof clay is packed in carton, suitable for storage in a cool, dry and ventilated place, the temperature should be 0-45℃.
2. This product is a non-flammable, non-explosive, non-toxic, odorless, non-corrosive and safe plastic solid material. Avoid sun and rain during transportation.
3. The effective storage period of the product is 6 months.

SILICONE FIREPROOF CLOTH

硅胶防火布

产品介绍

硅胶防火布是以耐高温高强度玻璃纤维布为基材，由硅橡胶经特殊工艺复合而成，是一种高性能，多用途的复合材料。已被广泛应用于航天、化工、石油、大型发电设备、机械、冶金、电气绝缘、建筑等领域。

Product Introduction

Silicone fireproof cloth is made of high-temperature and high-strength glass fiber cloth as the base material, which is compounded by silicone rubber through a special process. It is a high-performance, multi-purpose composite material. It has been widely used in aerospace, chemical, petroleum, large-scale power generation equipment, machinery, metallurgy, electrical insulation, construction and other fields.



主要用途

硅胶防火布是一种新型的复合材料，主要应用于以下几个领域：

- 1、电气绝缘：硅胶防火布具有较高的电绝缘等级，可承受高电压的负荷，可制成绝缘布、套管等产品。
- 2、非金属补偿器：非金属补偿器作为管道的柔性连接器件，它可以解决热胀冷缩对管道的破坏问题，硅胶防火布作为柔性膨胀的基材，具有耐高温、防腐性及耐老化性能、弹性及柔韧性极好。现已广泛地应用于石油、化工、水泥、钢铁、能源等领域，并已取得良好的使用效果。
- 3、防腐方面：硅胶防火布可作为管道、储罐的内外防腐层，防腐性能优良，耐高温，强度高，是一种理想的防腐材料。
- 4、其它领域：硅胶防火布可应用于建筑密封材料、高温防腐输送带、包装材料等领域。

Main purpose

Silicone fireproof cloth is a new type of composite material, mainly used in the following fields:

1. Electrical insulation: Silicone fireproof cloth has a high level of electrical insulation, can withstand high voltage loads, and can be made into insulating cloth, casing and other products.
2. Non-metallic compensator: Non-metallic compensator is used as a flexible connecting device for pipelines. It can solve the problem of damage to pipelines caused by thermal expansion and contraction. As a flexible and expandable base material, rubber fireproof cloth has high temperature resistance, corrosion resistance and aging resistance, excellent elasticity and flexibility. It has been widely used in petroleum, chemical, cement, steel, energy and other fields, and has achieved good results.
3. Anti-corrosion: Silicone fireproof cloth can be used as the internal and external anti-corrosion layers of pipes and storage tanks. It has excellent anti-corrosion performance, high temperature resistance and high strength. It is an ideal anti-corrosion material.
4. Other fields: Silicone fireproof cloth can be used in building sealing materials, high temperature anti-corrosion conveyor belts, packaging materials and other fields.

主要规格

颜色：灰色、红色、黑色、白色、蓝色、透明色、橙色等，可根据用户要求定做。

宽度：1米、1.2米、1.5米、2米，其它规格可以定做。

厚度：0.3mm/0.5mm/0.8mm/1.0-3.0mm，具体规格可以定做。

Main specifications

Color: gray, red, black, white, blue, transparent, orange, etc., can be customized according to user requirements.

Width: 1m, 1.2m, 1.5m, 2m, other specifications can be customized.

Thickness: 0.3mm/0.5mm/0.8mm/1.0-3.0mm, specific specifications can be customized.

FIREPROOF SHEET

防火苫布

产品介绍

防火苫布是以耐高温、防腐、高强的玻璃纤维布，经有机硅橡胶压延或浸渍而成，是一种高性能、多用途的复合材料新产品。本品具有色泽鲜艳，质轻柔软，经久耐用、高强度、耐拉力、防火、防水，防腐，抗冻、耐腐蚀等特点。

Product Introduction

The fireproof sheet is made of high temperature resistant, anticorrosion and high strength glass fiber cloth, which is calendered or impregnated with silicone rubber. It is a new high-performance and multi-purpose composite material product. This product has the characteristics of bright color, light weight and softness, durability, high strength, tensile strength, fire resistance, waterproof, mildew resistance, frost resistance, corrosion resistance and so on.



主要用途

防火苫布可用来防火隔离，易燃物遮盖，货物遮盖，工地作业易燃物苫盖，房屋装修苫盖等。

适合不同客户不同用途需求，规格从2米到120米均有，特殊规格可订做，是普通苫布消防替代产品，广泛用于建筑，铁路，仓库，木材，运输等各种行业。

防火苫布防火阻燃耐磨用于遮挡易燃物品。

Main purpose

The fireproof sheet can be used for fire isolation, flammable material covering, cargo covering, construction site flammable material covering, house decoration covering, etc.

It is suitable for different needs of different customers, with specifications ranging from 2 meters to 120 meters. Special specifications can be customized. It is an alternative to ordinary sheet cloth for fire protection. It is widely used in various industries such as construction, railways, warehouses, timber, and transportation.

Fire-resistant sheet cloth is fire-retardant, flame-retardant and wear-resistant to block flammable items.

主要规格

规格：4m×6m、6m×8m、10m×12m等各种规格。

颜色：绿色、红色、蓝色、银灰色、黑色等各种颜色

基本性能：与火焰接触不燃，长期使用温度≤500℃，具有耐擦洗，防水，防火、耐碱等功能。

Main specifications

Specifications: 4m × 6m, 6m × 8m, 10m × 12m and other specifications.

Color: green, red, blue, silver gray, black and other colors

Basic performance: non-combustible in contact with flame, long-term use temperature ≤ 500 °C, with scrub resistance, waterproof, fire resistance, alkali resistance and other functions.

FIRE BLANKET

灭火毯

产品介绍

对于须远离热源的人、物是一个最理想和有效的外保护层，并且非常容易包扎表面凹凸不平的物体，企业、商店、船舶、汽车、民用建筑物上的一种简便的消防灭火工具，特别适用于家庭厨房、宾馆、娱乐场所、加油站等一些容易着火场合，防止火灾情蔓延。

Product Introduction

It is an ideal and effective outer protective layer for people and objects that must be kept away from heat sources, and it is very easy to wrap up uneven objects. It is a simple fire fighting tool on enterprises, shops, ships, cars and civil buildings., especially suitable for home kitchens, hotels, entertainment places, gas stations and other places that are prone to fire, to prevent the spread of fire.



产品特点

在无破损的情况下可重复使用，与水基型、干粉型灭火器具相比较：

- 1、没有失效期；
- 2、在使用后不会产生二次污染；
- 3、绝缘、耐高温；
- 4、便于携带，配置简单，能够快速使用，无破损时能够重复使用。

由于灭火毯是一种质地非常柔软的消防器具，在遇到火灾初始阶段时，能以最快速度隔氧灭火，控制灾情蔓延，还可以作为及时逃生的防护物品，只要将毯子裹于全身，由于毯子本身具有防火、隔热的特性，在逃生过程中，人的身体能够得到很好的保护。

Product Features

Reusable without damage, compared to water-based, dry powder fire extinguishers:

1. There is no expiration date;
2. No secondary pollution will occur after use;
3. Insulation and high temperature resistance;
4. It is easy to carry, simple to configure, can be used quickly, and can be reused without damage.

Since the fire blanket is a very soft fire-fighting appliance, in the initial stage of the fire, it can extinguish the fire with oxygen at the fastest speed, control the spread of the disaster, and can also be used as a protective item for timely escape, as long as the blanket is wrapped around the body, Because the blanket itself has the characteristics of fire prevention and heat insulation, the human body can be well protected during the escape process.

主要用途

- 1、在发生火灾时，将防火逃生毯披盖在自己身体或包裹住被救对象的身体，迅速逃离火场，为自救或安全疏散人群提供了很好的帮助。如果真正出现火灾意外后，可以穿上灭火毯，那就可以大大减少被烧伤的危险了。
- 2、企业、商场、船舶、汽车、民用建筑物等场合的一种简便的初始灭火工具。

Main purpose

1. In the event of a fire, wrap the fire escape blanket over your body or wrap the body of the rescued object to quickly escape from the fire, which provides a good help for self-rescue or safe evacuation of people. If there is a real fire accident, you can wear a fire blanket, which can greatly reduce burnsof danger.
2. It is a simple initial fire extinguishing tool for enterprises, shopping malls, ships, automobiles, civil buildings and other occasions.

SMOKE-BLOCKING WALL CLOTH

挡烟垂壁布

产品介绍

用不燃烧材料制成，从顶棚下垂不小于500mm的固定或活动的挡烟设施。活动挡烟垂壁系指火灾时因感温、感烟或其它控制设备的作用，自动下垂的挡烟垂壁。

Product Introduction

It is a fixed or movable smoke blocking facility made of non-combustible materials and hanging not less than 500mm from the ceiling. The movable smoke blocking wall refers to the smoke blocking wall that automatically sags due to the action of temperature sensing, smoke sensing or other control equipment during a fire.



主要用途

主要用于高层或超高层大型商场、写字楼以及仓库等场合，能有效阻挡烟雾在建筑顶棚下横向流动，提高在防烟分区内的排烟效果，对保障人民生命财产安全起到积极作用。

- 1、挡烟垂壁目前国内有厂家在试制，但尚示批量生产和推广作用。
- 2、国内合资工程或独资工程有采用的，如北京市的长富宫饭店，采用铝丝玻璃做挡烟垂壁。国外、日本的东京、大阪、横滨的高层公共建筑中，有些采用铝丝玻璃、不锈钢薄板等做挡烟垂壁。
- 3、挡烟垂壁的自动的控制，主要指平时固定在吊顶的平面上，与火灾自动报警系统联动，当发生火灾时，感温、感烟或其它控制设备的作用，就自动下垂，起阻挡烟气作用，为安全疏散创长有利条件。

采用耐火纤维布经过涂层处理后使其具备防火、防烟、隔热等功能，用于卷帘式挡烟垂壁，通常状态下卷曲于吊顶上，发生火灾时自动落下，广泛应用于地铁、高层建筑、地下车库等场所的防烟分区。

Main purpose

Mainly used in high-rise or super-high-rise large shopping malls, office buildings and warehouses, etc., it can effectively block the lateral flow of smoke under the roof of the building, improve the smoke exhaust effect in the smoke-proof zone, and play a positive role in ensuring the safety of people's lives and property.

1. At present, there are domestic manufacturers in trial production of the smoke-blocking wall, but it still shows the role of mass production and promotion.
2. Some domestic joint venture projects or wholly-owned projects have adopted them, such as the Changfu Palace Hotel in Beijing, which uses aluminum wire glass as the smoke-blocking wall. Some high-rise public buildings in Tokyo, Osaka, and Yokohama in foreign countries and Japan use aluminum wire glass and stainless steel sheets as smoke-blocking walls.
3. The automatic control of the smoke-blocking wall mainly refers to the plane that is usually fixed on the ceiling and is linked with the automatic fire alarm system. When a fire occurs, the function of temperature sensing, smoke sensing or other control equipment will automatically sag and start Block the effect of smoke and create favorable conditions for safe evacuation.

The refractory fiber cloth is coated to make it have the functions of fire prevention, smoke prevention, heat insulation, etc. It is used for the rolling shutter type smoke blocking wall. It is usually curled on the ceiling in the normal state, and automatically falls when a fire occurs. It is widely used in subways., smoke-proof partitions in high-rise buildings, underground garages and other places.

INORGANIC FIRE BOX

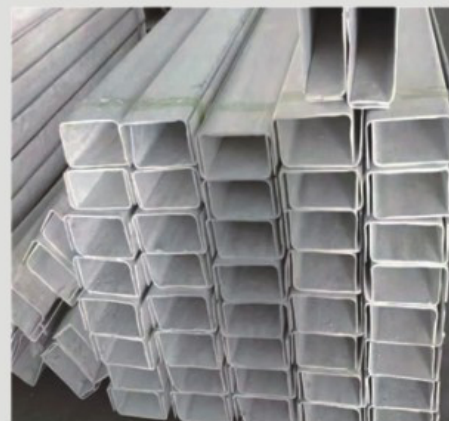
无机防火槽盒

产品介绍

防火槽盒有良好的隔热、防火、不燃、不爆、耐水、耐油、耐化学腐蚀、耐候性好、无毒及机械强度高、重量轻、承载力大、安全可靠的特点。防火槽盒使用后，若盒内电缆起火可因其自身结构的封闭性导致缺氧自熄，外部起火也因其槽盒材料不燃性而不会殃及盒内电缆。

Product Introduction

The fire box has the characteristics of good heat insulation, fire resistance, non-combustibility, non-explosion, water resistance, oil resistance, chemical corrosion resistance, good weather resistance, non-toxicity, good mechanical strength, light weight, large bearing capacity, safety and reliability. After the fireproof box is used, if the cable in the box catches fire, it can cause oxygen-deficient self-extinguishing due to its own structure.



产品特点

- 1、外型美观，重量轻，机械强度高完全替代传统的铁皮或水泥电缆槽盒。
- 2、具有良好的耐候性能。适应温度 -40 °C 到 70 °C，满足我国地域广，各地温度、湿度、海拔差异大等不同环境要求。
- 3、由于采用无机材料及改性剂使无机防火电缆槽盒具极好的抗老化性能。对水和一般浓度的酸，碱及多种油类，溶剂有较强的抵抗能力，使用寿命大大提高。
- 4、采用最先进的制作技术和优质原料，从根本上杜绝了无机材料所存在的吸潮反卤，变形翘曲等缺陷，使得产品强度更高性能更优越。
- 5、无机防火槽盒最显著的特点是阻燃性能优越，因为采用无机材料，状态稳定，经检测防火性能达到国家A级标准，是防止电缆着火的最佳防护。

Product Features

1. Beautiful appearance, light weight and high mechanical strength completely replace the traditional iron or cement cable tray.
2. It has good weather resistance. Adapt to the temperature from -40 °C to 70 °C, and meet the different environmental requirements of my country's wide area and large differences in temperature, humidity and altitude.
3. Due to the use of inorganic materials and modifiers, the inorganic fireproof cable tray has excellent anti-aging performance. It has strong resistance to water and general concentrations of acids, alkalis and various oils and solvents, and its service life is greatly improved.
4. The most advanced production technology and high-quality raw materials are used, which fundamentally eliminates the defects of moisture absorption, anti-halogen, deformation and warpage that exist in inorganic materials, and makes the product higher in strength and better in performance.
5. The most notable feature of the inorganic fireproof box is its excellent flame retardant performance. Because of the use of inorganic materials, the state is stable, and the fire performance has reached the national A-level standard after testing, which is the best protection to prevent the cable from catching fire.

主要用途

防火槽盒安全可靠、安装方便，能进行锯、钻、刨等机械加工，适用于电缆敷设时的耐火分隔，是有效防止电缆着火时火焰蔓延的理想材料。

Main purpose

The fireproof box is safe, reliable, easy to install, and can be machined by sawing, drilling, planing, etc. It is suitable for fire-resistant separation during cable laying, and is an ideal material to effectively prevent the flame from spreading when the cable catches fire.

ORGANIC FIRE BOX

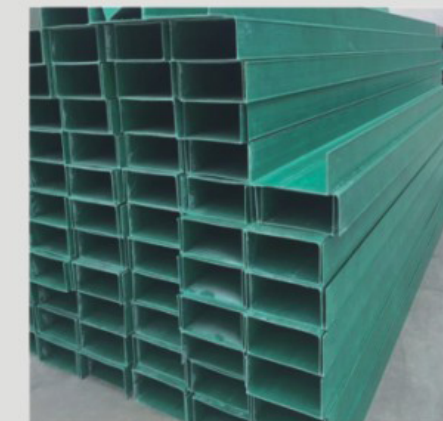
有机防火槽盒

产品介绍

有机树脂电缆槽盒又叫有机树脂防火槽盒，采用高阻燃性聚酯，高密度玻璃纤维以及高强度新材料一次性压制成型，产品具有保护电缆，绝缘性好，强度高，耐腐蚀，耐酸碱，抗老化，防火阻燃，环境适应性好（-50 °C -60 °C）无毒，无味，重量轻。

Product Introduction

The organic resin cable trough box is also called the organic resin fireproof trough box. It is made of high flame-retardant polyester, high-density glass fiber and high-strength new materials. Acid and alkali resistance, anti-aging, fire retardant, good environmental adaptability (-50 °C -60 °C) non-toxic, tasteless, light weight.



主要用途

一般用于架空电缆、电缆隧道、电缆夹层、电缆竖井等电缆密集场所的阻火分隔。以实现防止电缆着火蔓延和重要电缆回路的防火（或阻火）分隔目的。其中，无机防火槽盒，建议在户内干燥环境中使用。复合型防火槽盒特别适合在潮湿、含盐雾、化学气体地区以及严寒、酷热等各种环境条件下使用。

Main purpose

It is generally used for fire separation of overhead cables, cable tunnels, cable interlayers, cable shafts and other cable-intensive places. In order to achieve the purpose of preventing the cable from being ignited and burning and the fire (or fire resistance) separation of important cable circuits. Among them, the inorganic fireproof tank box is recommended to be used in an indoor dry environment. The composite fireproof box is especially suitable for use in various environmental conditions such as humidity, salt spray, chemical gas areas, and severe cold and heat.

安装方法

- 1、安装电缆槽盒前，就在墙上设置支架，电缆槽盒规格随支撑架的大小选用而定，但间距不应大于1500mm，一般用角钢制作。
- 2、将电缆槽盒放在支架上，位置确定后即可在支撑架的位置上用手电钻钻透电缆槽盒及支撑架，然后用螺栓拧紧，每个支撑架上钻孔两个，孔径10mm，使用M8螺栓两套。
- 3、在电缆槽盒的接头处应使用承插式接头及接缝连接片使两段电缆槽盒连接成一个整体。
- 4、道路拐弯处用树脂电缆槽盒弯头与槽盒连接。
- 5、槽盒盖直接盖在槽盒底之上。

installation method

1. Before installing the cable tray box, set the bracket on the wall. The size of the cable tray box depends on the size of the support frame, but the distance should not be greater than 1500mm, and it is generally made of angle steel.
2. Put the cable tray box on the bracket. After the position is determined, you can drill through the cable tray box and the support frame with a hand electric drill at the position of the support frame, and then tighten them with bolts. Drill two holes on each support frame, the hole diameter 10mm, use two sets of M8 bolts.
3. Socket-type joints and seam connectors should be used at the joints of the cable tray to connect the two sections of the cable tray into a whole.
4. Use the elbow of the resin cable slot box to connect the slot box at the corner of the road.
5. The tank cover is directly covered on the bottom of the tank.

ENGINEERING
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首都机场



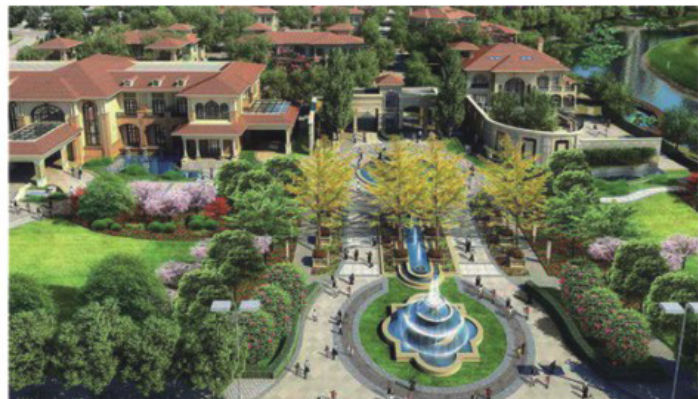
北京第二机场



哈尔滨大剧院



恒大绿洲



红星威尼斯



富力江湾



江北义乌城



北京国家游泳中心



华为桂林数据中心



进出口银行



山东中医药大学



武汉亚心总医院



三亚国际体育产业园体育场



沈阳融创中央学府

ENGINEERING PERFORMANCE 工程业绩

中国首钢集团高炉炼钢一分厂
 中国首钢集团炼铁二分厂
 中国通信建设第一工程有限公司
 江西大唐国际抚州发电有限责任公司
 唐山松汀钢铁有限公司
 迁安市旺佰欣化工有限公司
 滦县金马工业有限公司
 沧州中铁装备制造材料有限公司
 河北渤海煤化工有限公司
 河北邯郸矿业集团金石钢铁有限公司
 邢台旭阳焦化有限公司
 河北港口集团有限公司
 河北宝利汇丰实业集团有限公司
 河北钢铁集团荣信钢铁有限公司
 河北钢铁集团荣信钢铁自备电厂
 河北中翔能源有限公司
 河北顺先实业钢铁有限公司
 唐山市瑞益通工贸有限公司
 唐山市春兴钢铁集团有限公司
 唐山安泰钢铁有限公司
 唐山市蓝海实业有限公司
 唐山市蓝欣玻璃有限公司
 唐山宝利汇丰集团宝利源炼焦有限公司
 河北省安装工程集团有限公司
 河南电力有限公司
 河南汉冶钢铁有限公司
 山东鑫海科技股份有限公司
 青岛北冶钢铁有限公司
 秦皇岛德龙铸造业开发有限公司
 秦皇岛佰工钢铁有限公司
 秦皇岛佰工钢铁有限公司自备电厂
 秦皇岛港务集团有限公司
 翔龙集团山东钢铁有限公司
 沾化滨北电厂
 山西万达焦化有限责任公司
 华能集团汕头燃煤电厂
 浙江福莱特光伏玻璃集团股份有限公司
 云南富宁朗恒电力开发有限公司
 福州福大自动化科技有限公司

江阴市西城钢铁有限公司
 攀钢集团成都钢铁有限责任公司
 邢台热电有限公司
 内蒙古锦园钢铁（乌海）有限公司
 内蒙古乌海市鄂海铁厂
 内蒙古乌拉特后旗紫金矿业有限公司
 神华集团乌海天信煤化工有限公司
 内蒙古华业特钢股份有限公司
 华西钢铁有限公司炼铁厂
 青海省石油总公司有限公司
 新疆华电哈密发电有限责任公司
 贵州乌江水电开发有限公司
 天风风力发电机厂
 盛阳焦化有限公司
 葫芦岛电力设备厂
 大唐集团佳木斯第二发电厂
 大唐集团长春第二热电有限公司
 通辽梅花生物科技有限公司
 通辽梅花生物科技电厂电站
 抚顺特殊钢股份有限公司
 四平现代钢铁有限公司
 吉林鑫达钢铁有限公司
 吉林鑫达钢铁自备电厂
 大连电力建筑工程公司
 锦州鑫雨铁合金有限责任公司
 锦州市鑫泽锰业有限公司
 锦州珪鑫铸业有限公司
 安徽天康集团(股份)有限公司
 中航上大高温合金材料有限公司
 河南能源鹤煤公司热电厂
 山西阳泉河坡电厂
 上海电气集团广西南宁分公司
 雄安新区隧道K1快速路项目
 江苏海力化工有限公司
 鲁西化工集团有限公司
 山东博汇集团
 宁波轻纺利用防火涂料项目
 陕西延长中煤榆林能源化工有限公司
 九江石化国五改造项目

首钢迁安钢铁公司
 四川乐山奥体中心防火涂料项目
 重庆轨道交通六号线支线二期复兴站
 五常电厂1*50MW背压式热电联产新建项目
 青岛美一群影视文化有限公司制冷空调设备
 中铁一局集团电务工程有限公司
 富力环贸港项目恒力仓库
 临江商务区旧城改造安置房
 新疆800千伏特高压天山换流站
 青岛三兴源橡塑科技有限公司
 黄岛区双星轮胎老厂区开发项目B地块
 云上35千伏变电站升压改造项目
 上海电建火力发电厂
 锂离子动力电池三元材料生产线建设项目
 中电投贵州务正道1000kt/a氧化铝工程二标段
 北京中科电商谷C1号商业办公等23项（南区）
 甘肃省金昌市永昌县河西堡镇金昌电厂
 南昌万达城M区住宅项目部
 220kv(遮放)输变电工程
 宁波市北仑区宁钢1号高炉易地大修项目
 长青能化60万吨/年甲醇主装置区防腐工程
 山东盛大食品有限公司农产品冷链物流项目
 550KV永昌输变电工程（变电部分）主体工程
 铜陵嘉合科技有限公司7万吨/年聚酰胺项目
 唐山慧恒房地产开发有限公司-1澜园项目
 江苏省泰州泰和福苑二期工程
 南京保利雨山路项目供电配套及土建工程
 阜宁南牵引站220KV变电站
 云南观澜云鼎建设项目
 钢铁仓储物流园产业园建设项目1#生产车间
 昌平线大客车站站前广场装摄像机项目
 白俄罗斯农工综合体电厂项目
 津巴布韦吉旺电厂
 安哥拉电网入户项目
 印尼氧化铝项目
 马尔代夫新能源防火材料项目
 伊拉克阿玛拉单循环改联合循环项目
 巴基斯坦滨佳胜三期联合循环项目
 科特迪瓦电厂项目