常州赫田新材料科技有限公司

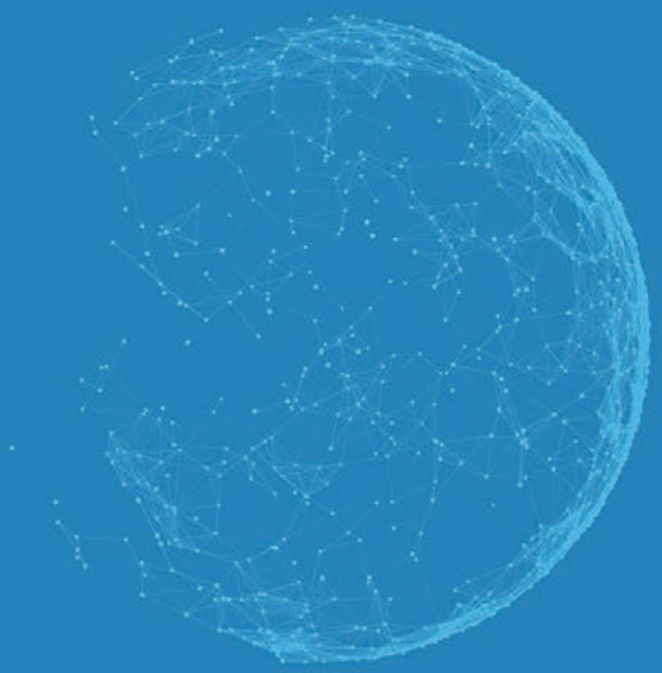
总　　部：江苏省常州市新北区薛家镇尚德路15号
生产基地：江苏省常州市武进区遥观镇桥南工业园196号
电话TEL：+86 519-89888291
传真FAX：+86 519-89180987
邮箱：Info@herence.cn

Herence New Material Technology Co.,Ltd
OFFICE: No.15 Shangde Road, Xuejia, Xinbei District, Changzhou, Jiangsu, PR.China
FACTORY: No,196 Qiaonan Industrial Park,Yaoguan Town,Wujin District,Changzhou,Jiangsu,PR.China
TEL: +86 519-89888291
FAX: +86 519-89180987
E-mail: info@herence.cn
www.herence.com.cn

HERENCE 赫田

COMPOSITES
FOAMS
SOLUTION PROVIDER

赫田新材公司简介
COMPANY PROFILE



HERENCE INTRODUCTION
关于赫田

常州赫田新材料科技有限公司，始于2015年6月，是一家专注超低温保冷绝热、高强度轻量化支撑领域的综合材料工程制造商，总部位于江苏常州，经过多年发展，公司已建成一间实验室、一家制造工厂。

公司产品涵盖发泡材料和复合材料制成品两个系列，细分PIR、HDPIR、硅酸盐复合材料、热固性树脂玻纤复合材料四大材料种类，专业服务于核电能源、氢能储运、石油炼化、天然气工业、LNG（液化天然气）船运工业、航空工业、电气产品制造商等领域。

赫田新材注重团队建设和人才培养，拥有一支富有朝气的高素质年轻队伍。其中团队本科占比60%以上，大专以上占比76%。公司专注为客户提供定制化、综合解决方案，包括绝热保冷工程设计咨询和施工服务。

公司名下涵盖HERENCE®赫田®和CIPTEX®泰柯®两大品牌。公司通过ISO9001：2015质量管理体系认证，产品通过欧盟REACH和ROHS认证。公司为国家认定高新技术企业。

赫田新材搭建了专业的研发平台，不断引进和吸收国内外先进的生产技术和管理理念，先后成功开发出一系列具有国际竞争力的产品。我们期待协手上下游合作伙伴共同前行，持续增加技术研发投入，专注于发泡材料和复合材料等新材料领域的产品和技术创新，追求卓越，不断打造冠军产品。

Herence New Material Technology Co., Ltd founded in Jun,2015,which is a comprehensive material engineering solutions provider that focuses on the fields of ultra-low temperature refrigeration insulation and high-strength lightweight support. Our company is headquartered in Changzhou, Jiangsu and has a laboratory and a manufacturing factory.

Our products cover two series: foam materials and composite material products, which are subdivided into four major material types: PIR, HDPIR, silicate composite materials, and thermosetting resin fiberglass composite materials. Our company specializes in serving the nuclear power energy, hydrogen energy storage and transportation, petroleum refining, natural gas industry, LNG (liquefied natural gas) shipping industry, aerospace industry, and electrical product manufacturers.

Herence New Material focuses on team construction and talent cultivation and has a vigorous, youthful and highly qualified team. 60% of our employees are above bachelor's degree and 76% of our employees have junior college degree or above. Company focuses on providing customized and comprehensive solutions to customers, including insulation and refrigeration engineering design consulting and construction services.

Our company has two major brands: HERENCE® and CIPTEX® . Our company is certified by the ISO9001:2015 quality management system, and its products are certified by the EU REACH and ROHS. Our company is recognized as a national high-tech enterprise.

Herence New Material has established a professional research and development platform, continuously introducing and absorbing advanced production technology and management concepts from both domestic and foreign sources, successfully developing a series of internationally competitive products. We look forward to working with upstream and downstream partners to continue increasing investment in technology research and development, focusing on product and technological innovation in new materials such as foam materials and composite materials, pursuing excellence, and continuously creating champion products.

合作客户 COOPERATIVE CLIENTS

（排名不分先后）

权威认证 CERTIFICATION

■ 泰柯® 聚异氰脲酸酯PIR制成品

CIPTEX® PIR

产品介绍：

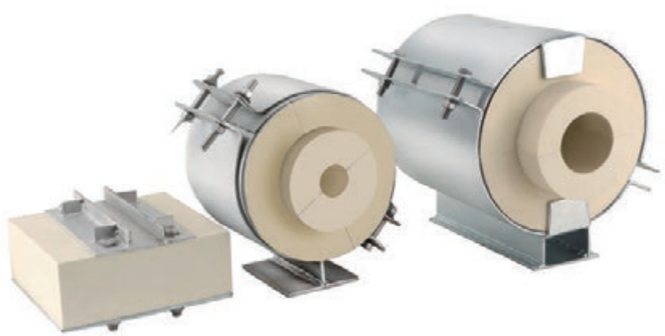
泰柯®系列PIR产品由异氰酸酯(Isocyanate)与聚醚(Polyol)为主原料，经专门配方和严格工艺条件下充分混合、反应、发泡生成的泡沫聚合体。对于其它传统材料，PIR的防火性能优、导热系数小；防水性好，化学性质稳定，抗老化性好，适用工作温度范围广，是用于深冷及普冷温度环境下绝热材料的最佳选择。

产品特性：

- 优异的闭孔率和低吸水性
- B1以上阻燃等级
- 优异的导热系数
- 抗压性、冷缩率优良
- 高精度线切割机和三轴加工中心成型，尺寸精度高
- 可根据客户要求定向研发材料性能，满足不同工况的保冷绝热需求

应用场合：

- 石油化工、液化天然气存储传输保冷系统
- 核电站等保冷管道系统支撑
- 中央空调系统保温隔热及冷冻库、建筑业保温需求



Products Description

CIPTEX® PIR is made of isocyanate and polyether as the main raw materials, and are fully mixed, reacted, and foamed to polymers under special formula and strict process conditions.
Compared to other traditional materials, PIR has excellent fire performance and low thermal conductivity; It has good water resistance, stable chemical properties, good aging resistance, and a wide range of applicable working temperatures.
It is the best choice for thermal insulation materials in cryogenic and normal cold temperature environments.

Specification

- High closed cell content
- Good pressure and flexure resistance Excellent cryogenic insulation
- Good flame retardancy

Application

- Insulated piping in LNG station and petrochemical field
- Piping supports for insulated piping in nuclear power area
- Lager freezer

■ 泰柯® 预制管件

CIPTEX® PREFABRICATED PIPE FITTINGS

产品介绍：

雕刻工艺，一体成型。错缝合理，免除漏冷风险；安装便捷，降低工程周期。毛胚采用自产PIR材料，性能卓越，使用寿命长，延长业主工艺设备管道安全生产周期，增效降本。

Carving process, integrated molding。Reasonable staggered joints, eliminating the risk of cooling leakage; Convenient installation, reduce project time. The raw material uses self-produced PIR with excellent performance, long service life. Extend the safety production cycle of equipment pipeline, increase efficiency, and reduce costs.

物理性能 property / 型号 Parts		CIPTEX® 9040	CIPTEX® 9160	CIPTEX® 9220	CIPTEX® 9320	CIPTEX® 9550	CIPTEX® 9340SP1
密度 Density	Kg/m³	40	160	220	320	550	340
导热系数 Thermal Conductivity	W/(m.k)	≤0.023	≤0.036	≤0.040	≤0.050	≤0.090	≤0.048
吸水率 Water absorption	%	≤2	≤2	≤2	≤1.8	≤1.5	≤1.6
闭孔率 Closed cell	%	≥95	≥95	≥95	≥95	≥95	≥98
压缩强度 Compressive Strength	Mpa	≥0.2	≥1.6	≥4	≥6	≥18	≥9
-165℃压缩强度 -165℃ Compressive Strength	Mpa	-	-	-	-	-	≥20
拉伸强度 Tensile Strength	Mpa	≥0.32	-	-	-	-	≥4
-165℃拉伸强度 -165℃ Tensile Strength	Mpa	-	-	-	-	-	≥8
氧指数 Oxygen Index	%	≥30	≥27				
使用温度 Service temperature	℃	-200℃~ 120℃					

（具体材料性能参数请咨询销售经理）

■ 泰柯® 高温绝热系列

CIPTEX® HIGH TEMPERATURE INSULATION SERIES

产品介绍：

泰柯®高温绝热系列是配套绝热场景使用。其分为硅酸盐制品系列、玻璃棉岩棉系列、以及纳米毡系列。作为保温领域常见材料，其具有加工方便，采购便捷的特点，其形制包含各类卷材、管壳、板材等；安装工艺成熟，产品性能稳定。

产品特性：

- 防火等级 A 级,不燃
- 适用中高温保热领域
- 产品成熟，应用广泛
- 类型广泛，性能稳定

应用场合：

- 电力锅炉、汽轮机隔热
- 工业高温管道隔热、壁衬
- 煤化工等热反应流程

Products Description

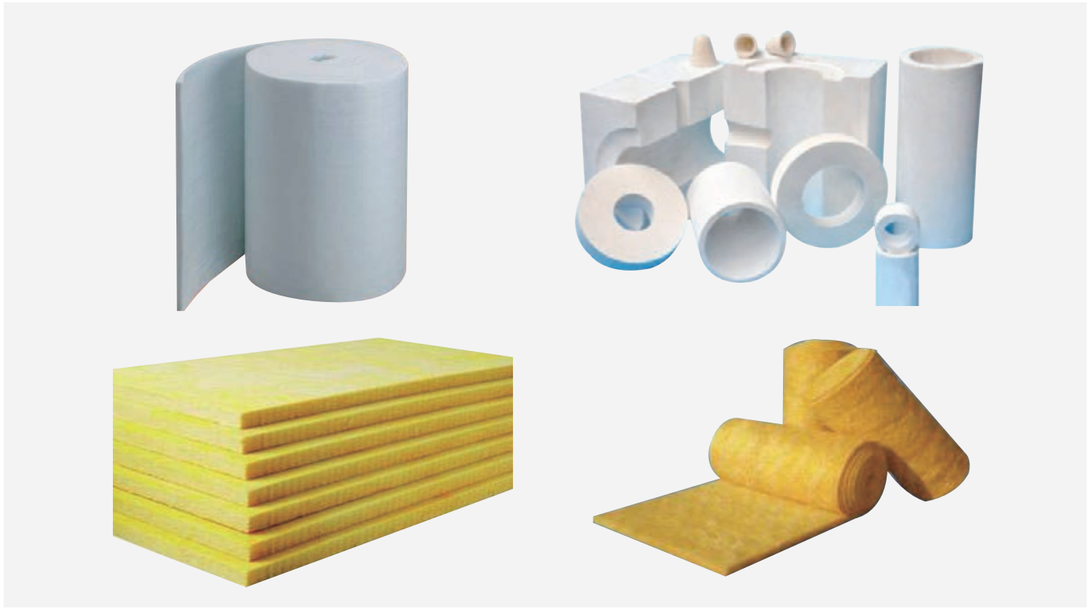
CIPTEX® High temperature insulation series is used in matching heat-insulating scenarios. divided into silicate product series, glass wool＆rock wool series, and nano felt series. As a common material in the heat-insulation field, it has the characteristics of convenient processing and procurement

Specification

- Non-Combustible.
- Suitable for medium to high temperature insulation fields
- Mature products with extensive applications
- Wide range of types and stable performance

Application

- Thermal insulation of electric boilers and steam turbines
- Industrial high-temperature pipeline insulation and wall lining
- Coal chemical and other thermal reaction processes



■ 泰柯® 泡沫玻璃

CIPTEX® FOAM GLASS

产品介绍：

泰柯®系列泡沫玻璃产品是以纯玻璃与特种发泡剂为原料，经高温隧道炉生产，退火冷却而形成的无机绝热材料；它具有导热系数低，物理强度大，不燃等特性，是管道、设备的优秀保冷材料。

产品特性：

- 适用温度范围广
- 导热系数低
- 不燃，性能稳定

应用场合：

- 低温管道、设备等相关绝热系统
- 中、高温介质传输、存储绝热系统
- 化工生产等防火要求高的工业环境

Products Description

CIPTEX® CG is Inorganic insulation materials, made of pure glass and special foaming agent, produced at high temperature; It has the characteristics of low thermal conductivity, high physical strength, non combustible, etc. It is an excellent cold insulation material for pipelines and equipment.

Specification

- Suit for large temperature range
- Low thermal conductivity
- Incombustible material

Application

- Low temperature pipeline and equipment
- Medium、high temperature transmission and storage equipment
- Industrial environment with upper requirement of fireproofing

物理性能 property	单位 unit	CIPTEX®CG
密度 Density	Kg/m^3	95-120
导热系数 Thermal Conductivity	W/(m.k)	≤0.042
吸水率 Water absorption	%	≤0.3
抗压强度 Compressive Strength	Mpa	0.5
阻燃性能 Flame Retardancy		不燃

■ 泰柯® 设备消音系列

CIPTEX® EQUIPMENT NOISE REDUCTION SERIES

产品介绍：

泰柯® 设备消音系列。该系列分为吸音、减震两个板块。吸音材料结构上疏松多孔，声波深入材料孔隙时，被细小纤维吸收，声能转化为热能；阻尼减震片则是弹性材料，可以有效地吸收机械震动和声波振动，从而减少噪音和振动对周围环境和设备的影响。

产品特性：

- 阻燃,不易燃烧
- 有效阻隔声波震动和传播，隔音降噪
- 防潮性能优异
- 效果稳定，应用广泛

应用场合：

- 设备隔音
- 燃气调压撬减震降噪
- 介质高流速管道

Products Description

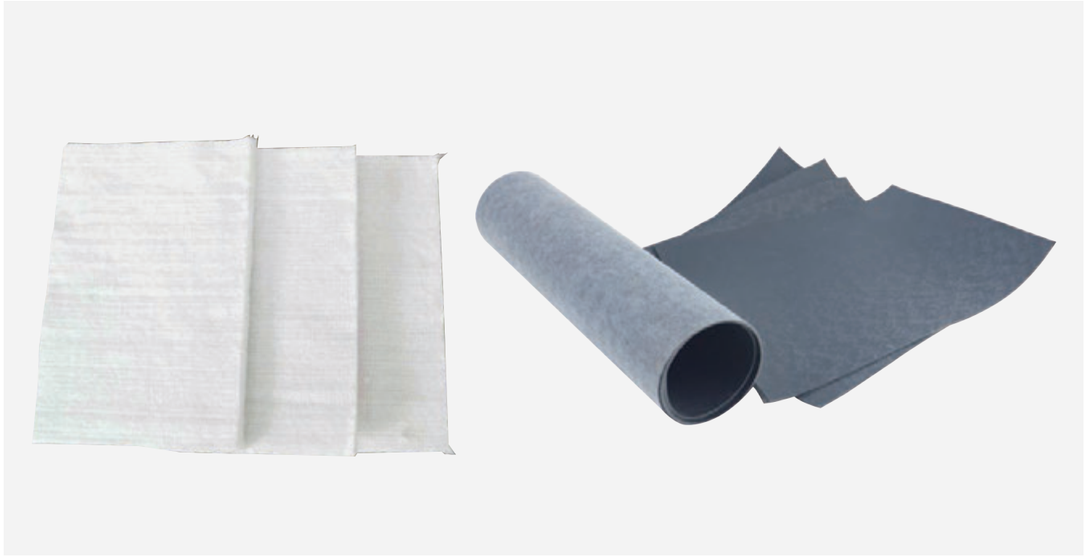
CIPTEX® Equipment noise reduction series. This series is divided into two parts: sound absorption and shock absorption.
The structure of sound-absorbing materials is loose and porous. When sound waves penetrate into the pores of the material, they are absorbed by small fibers, and sound energy is converted into heat energy; Damping pads are elastic materials that can effectively absorb mechanical and acoustic vibrations, thereby reducing the impact of noise and vibration on the surrounding environment and equipment.

Specification

- Flame retardant, non flammable
- Effectively blocking the vibration and propagation of sound waves, providing sound insulation and noise reduction
- Excellent moisture resistance
- Stable effect and wide application

Application

- Equipment sound insulation
- Gas pressure regulating pry for shock absorption and noise reduction
- Pipeline with high medium flow rate



■ 赫田® 环氧玻纤系列

HERENCE® EPCXY GLASS FIBER PRODUCTS

产品介绍：

赫田®系列环氧玻纤产品是由玻璃纤维布和环氧树脂在高温环境下制成的复合材料加工而成。具有比重小，强度高，耐电绝缘等优点，广泛应用于机械及电气领域。

产品特性：

- 复合材料
- 弹性模量优异
- 阻燃
- 较高的机械及电气强度
- 加工性能优

应用场合：

- 结构及支撑应用
- 电气绝缘领域
- 振动设备、振动筛盘应用
- 变压器

Products Description

Herence® series products are constructed of a woven glass fabric combined with a high temperature, easy machining expoxy resin. It is ideal material with small specificgravity， strong strength and electri-calinsulation to be widely used in mechanical& electrical field.

Specification

- Thermoset composite material
- High elasticity modulus
- High mechanical and electrical strength
- Good processability

Application

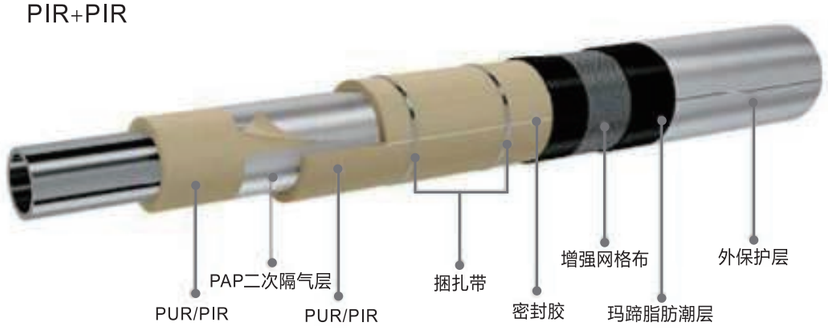
- Structural and support application
- Electrical insulation field
- Vibrating equipment & vibrating screen
- Transformer

物理性能 property / 型号 Parts		HERENCE® 2135	HERENCE® 2155
弯曲强度 Flexural strength	Mpa	645	450
压缩强度 Compressive strength	Mpa	405	450
简支梁冲击强度 Charpy Impact Strength	KJ/m²	86	155
吸水性 Water absorption	mg	8.6（1mm）	16（3.175mm）
燃烧等级 Flammability		HB/V0	HB
使用温度 Operation Temperature	℃	≤135	≤155

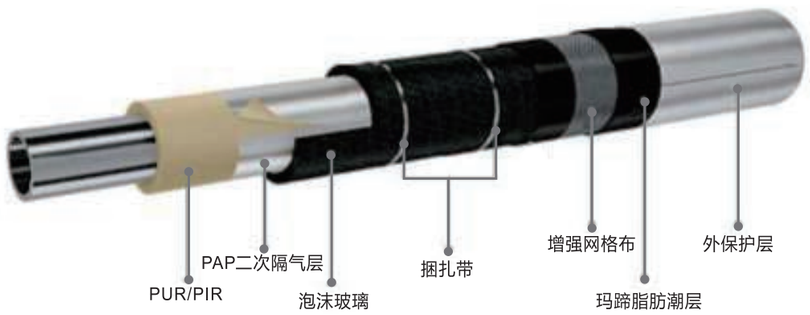
■ 管道绝热系统结构图

PIPES HEAT INSULATION STRUCTURE

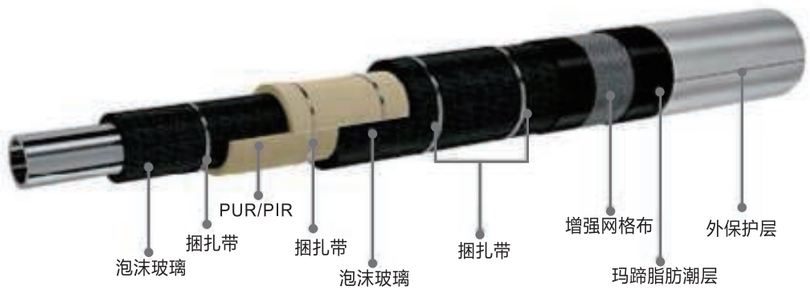
PIR+PIR



PIR+CG

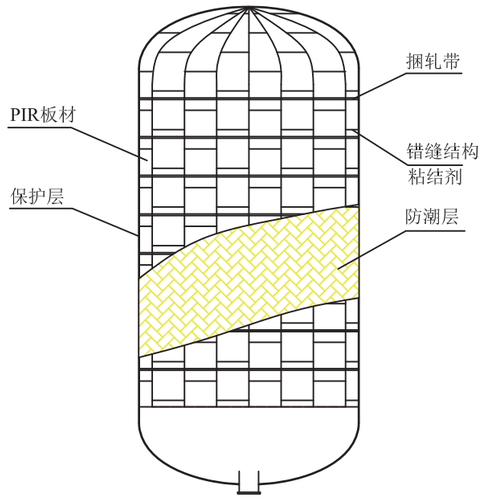


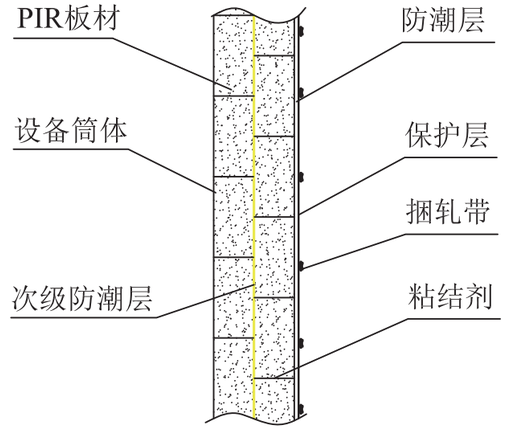
CG+PIR+CG

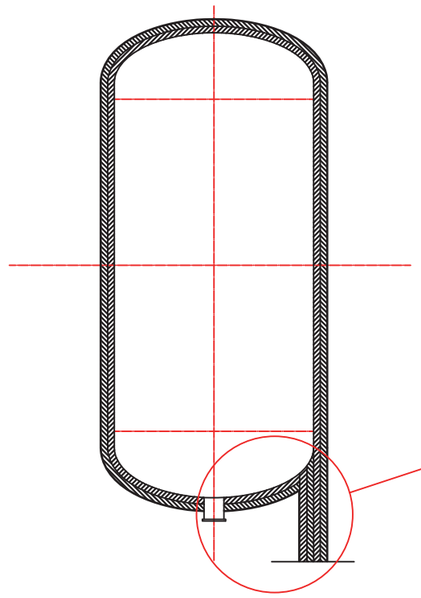


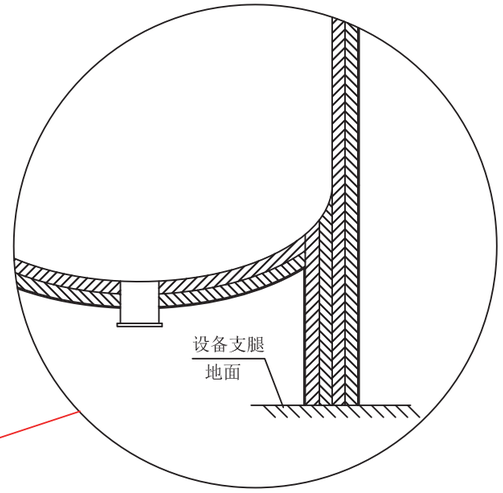
■ 设备及储罐保冷结构

COLD INSULATION STRUCTURE FOR EQUIPMENT&STORAGE TANK









注释：

1、绝热材料内外层应错缝安装

2、设备支腿等延伸绝热长度至少为绝热厚度的4倍

工程施工服务

ENGINEERING CONSTEUCTION SERVICES

本公司可配套工程施工，包含绝热（保冷保温）、消音减震板块。专业适配储罐管廊系统，传输管廊系统，特种设备工程需求等。订制化方案，专业化团队，为每一个项目打造差异化工程内容，为客户的节能增效保驾护航。

Our company supply engineering construction，Including thermal insulation 、cold insulation、noise reduction and vibration reduction parts. Professional adaptation of tank pipe gallery systems, transmission pipe gallery systems, special equipment engineering needs, etc.Customized solutions, professional teams, Creating different solution for the project.

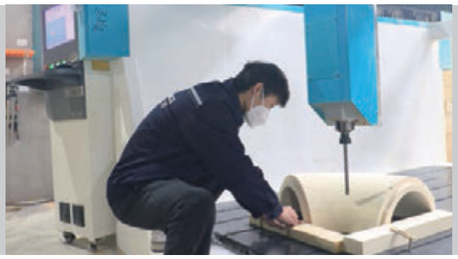
工程辅料

ENGINEERING AUXILIARY MATERIALS

本公司可根据工程方案提供全面优质的施工辅料，包括但不限于：玛蹄脂、密封胶、TN-1、双组份发泡料、防腐玻纤布、聚四氟乙烯板、丁基橡胶复合防水防潮卷材等。如客户有明确需求，亦可同步供应Foster、STI等进口辅材。

Our company can provide comprehensive and high-quality construction auxiliary materials according to customer needs.

黑色玛蹄脂	白色玛蹄脂	密封胶
		
TN-1粘接剂	发泡料A	发泡料B
		



APPLICATION AREA
应用领域

核电站 Unclear Power Station

核级管道支吊架保冷管壳
Unclear Pipes supports nsulation
核级管道绝热
Unclear Pipes insulation

电机 Motors

电气绝缘材料，满足低压和高压电机使用
Electrical insulation components for low-voltage or high-voltage motors

石油石化 Petrochemical

管道支吊架PUR/PIR管壳、垫块
Pipes supports PUR/PIR insulated piping and blocks

汽车工业 Vehicles & Heavy Truck

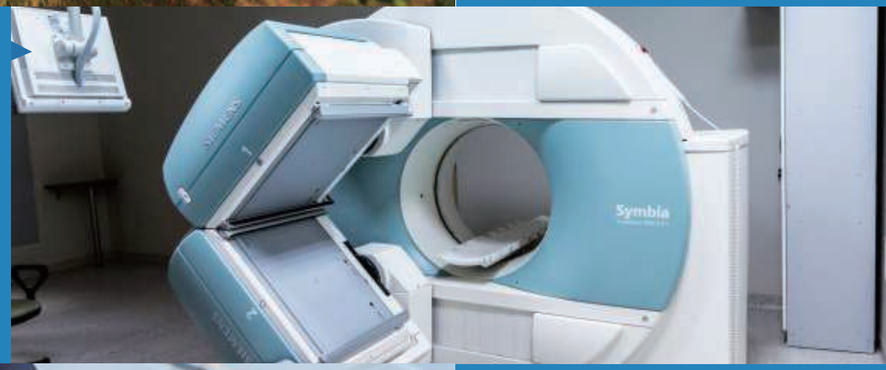
轻量化复合材料和定制组件
Lightweight composites and custom components

LNG低温设备与系统
Cryogenic Insulation In LNG Field

PIR硬泡预制半管绝热系统
PIR insulated system

医疗器械 Medical Devices

梯度线圈内复合材料支撑
Support composites in gradient coils



船用深冷储罐和管道保温
Cryogenic Insulation For Tanks And Pipes

Mark Ⅲ/Flex型LNG液货围护系统平面区域绝热材料
Insulated components used in flat area for Mark Ⅲ/Flex cryogenic containment systems

太阳能 Sun Power Industry

支撑用复合材料组件
Support composites in sun power maintenance