

江苏艾德琳科技有限公司

JIANGSU ADELIN TECHNOLOGY CO., LTD

ISO9001:2015, ISO14001:2015 , IATF16949 CERTIFICATION,
HAZARDOUS CHEMICALS TRADING LICENSE

公司简介 Company Profile

艾德琳是一家销售，技术研发和生产的综合类公司，公司拥有专业的设计团队为客户提供材料与成品方案，稳居行业发展的前沿。从公司成立的背景到发展过程中取得成就，都展示了公司在隔热保温行业中的重要地位与影响力。ADELINE is a comprehensive company specializing in sales, technology research and development, and production. The company has a professional design team to provide customers with material and finished product solutions, and is at the forefront of industry development. From the background of the company's establishment to its achievements in the development process, it demonstrates the important position and influence of the company in the thermal insulation industry.

公司成立于2008年8月21日，坐落于无锡江阴市，厂房面积4000多平方，现有员工300人，年产值1.5亿。

The company was established on August 21, 2008, located in Jiangyin City, Wuxi. The factory covers an area of over 4000 square meters, with 300 employees and an annual output value of 150 million yuan.

公司产品主要应用于道路与非道路，汽车行业，工程机械，隔热与防火领域。

The company's products are mainly used in road and non road, automotive industry, construction machinery, insulation and fire prevention fields



核心价值观与企业精神

Core Values and Corporate Spirit

艾德琳科技的核心价值观

Adeline Technology's Core Values

艾德琳科技以创新、诚信和客户至上为核心价值观，始终追求技术卓越和优质服务，为客户和社会创造价值。

Adeline Technology takes innovation, integrity, and customer first as its core values, always pursuing technological excellence and high-quality service, creating value for customers and society

企业精神的体现

Embodiment of corporate spirit

艾德琳科技的企业精神体现在团队协作、持续改进和勇于担当，激发员工的潜能，推动企业的持续发展。

The corporate spirit of Adeline Technology is reflected in teamwork, continuous improvement, and the courage to take responsibility, inspiring employees' potential and promoting the sustainable development of the enterprise

价值观与企业精神的融合

Integration of values and corporate spirit

艾德琳科技将核心价值观与企业精神紧密结合，形成了独特的企业文化，为公司的长远发展奠定了坚实基础。

Adeline Technology closely integrates its core values with corporate spirit, forming a unique corporate culture and laying a solid foundation for the company's long-term development



四川生产基地
Sichuan Production Base



隔热棉技术中心
Thermal Insulation Cotton
Technology Center



无锡生产基地
Wuxi Production Base



无锡研发中心
Wuxi R&D Center

技术中心 Technical Center

Canada Plant--- Cobourg-----技术支持与合作，高端原材料供应

Technical support and cooperation, high-end raw material supply



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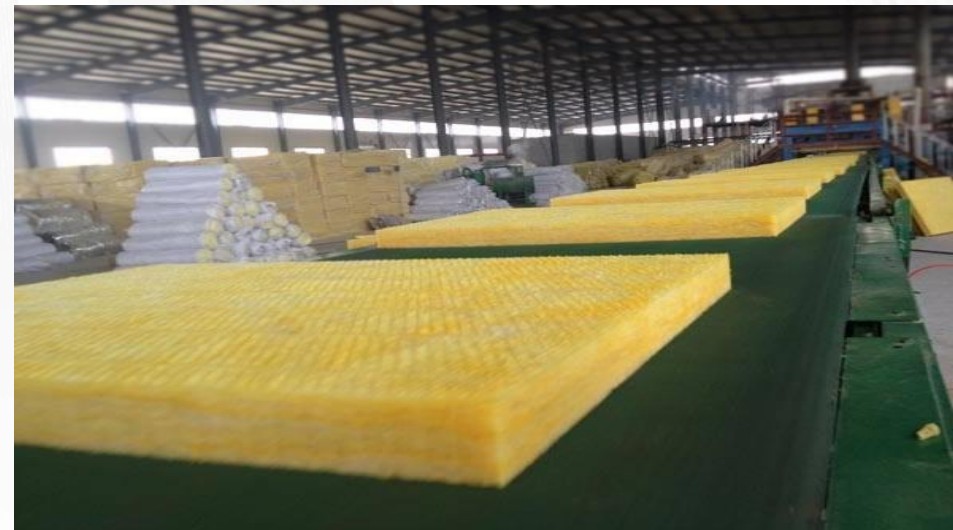
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隔热棉生产 (四川)

Thermal insulation cotton production (Sichuan)

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隔热棉加工 (无锡)

Thermal insulation cotton processing (Wuxi)



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生产能力
Production Capacity

设备名称 Equipment name	数量 Quantity
针刺产线 Acupuncture production line	2
高速裁床机 High speed cutting machine	5
高速模切机 High speed die-cutting machine	1
复合分条线 Composite dividing line	1
特殊缝纫设备 Special sewing equipment	40
高速模板机 High speed template machine	5
自动辅件装配机 Automatic accessory assembly machine	1
冲床200T Punching press 200T	5
液压机200T Hydraulic press 200T	2
激光切割机 Laser cutting machine	3



针刺产线 Acupuncture production line



针刺毡生产线
Needle punched felt production
line

line

1

玻璃纤维毡 (各类玻纤保温毡、隔热毡、亲水毡等)
Fiberglass Non-woven(Insulation non-woven, hydrophilic non-woven)

2

高硅氧毡 (96%硅氧针刺毡)
High-silica non-woven(upto96%SiO₂)

3

玄武岩毡 (Basalt non-woven)

4

多层复刺毡 (玻玄对刺毡、毡布对刺、高温密封毡)
Multi-layer non-woven overlay(GF-Basalt non-woven, non-woven fabric overlay, high-temp sealing non-woven)

5

混刺毡(玻-化纤混刺毡、矿物料混刺)
Mix non-woven(GF-chemifiber Mix non-woven, Mineral mat, Mix non-woven)

6

碳纤维毡 (预氧丝毡)
Carbon fiber non-woven (Pan-felt non-woven)

复合线 Composite thread



复合生产线

Composite production line

Composite production line

1

针刺毡-基布复合 (各类防火绝缘布、隔热保温布、电子布) Fiberglass Fabric(fire proof fabric, Insulation fabric,E-fabric)

2

3-6层混合材质复合 Basalt fabric

3

针刺毡-基布复合 (各类防火绝缘布、隔热保温布、电子布) Fiberglass Fabric(fireproof fabric, Insulation fabric,E-fabric)

4

玻纤多层隔板 (玻纤硅胶布、高硅氧硅胶布、双面硅胶布) Silicone Coated fabric(SC fiberglass fabric,SC High-silica fabric,double side SC fiberglass fabric))

5

混织布(玻玄混织布、玻纤钢丝布、玻碳混织布) Mix-weaving Fabric(GF-basalt Mix fabric,FG-SSSyarn fabric,GF-CF mix fabric)

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模切线 Tangent line



模切生产线

Die cutting production line

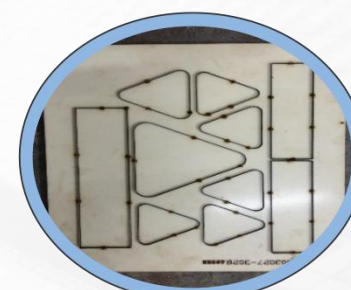
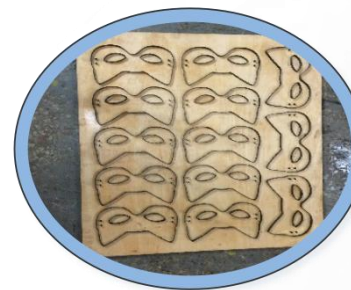
Die cutting production line

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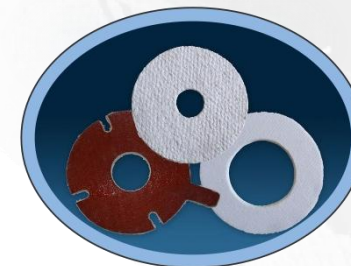
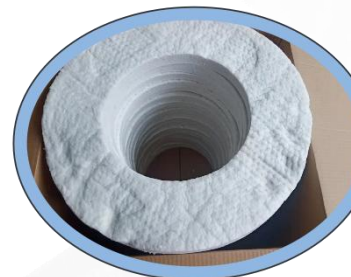
1

刀模
Cutting die



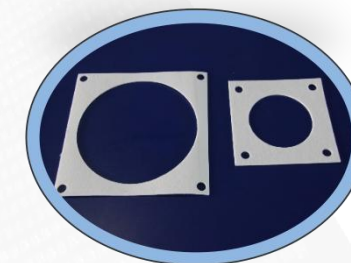
2

保温垫
Insulation pad



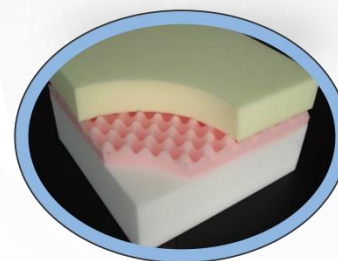
3

建筑板材
building board



4

海绵
sponge



缝纫线 Sewing Line

ADEL



缝纫生产线

Sewing production line

sewing production line

1

保温垫片
Insulation gasket



2

保温夹克
Insulated jacket



3

半导体加热套
Semiconductor heating sleeve



4

真空气体管道加热
Heating of vacuum gas pipeline



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冲压线 Pressing Line



1

隔热罩
Heat shield



2

支架
bracket



冲压生产线

Pressing production line

Pressing production line

主要经营范围 Main Business Scope



科技研发领域 Technology research and development field

江苏艾德琳科科技公司专注于高科技领域的研发，包括半导体、储能、石油、核能等前沿技术。
Jiangsu ADELIN Technology Co., Ltd.
focuses on research and development in high-tech fields, including cutting-edge technologies such as semiconductors, energy storage, petroleum, and nuclear energy



技术服务提供 Technical service provision

我们为各行各业提供专业的技术服务，包括但不限于技术咨询、解决方案设计、系统集成等。
We provide professional technical services for various industries, including but not limited to technical consulting, solution design, system integration, etc



产品销售和推广 Product sales and promotion

公司拥有一系列自主研发的产品，并致力于将这些产品推向市场，满足不同用户的需求。
The company has a series of independently developed products and is committed to bringing these products to the market to meet the needs of different users

产品介绍 Product Introduction

缝纫夹克类
Sewing jackets



针刺类
Acupuncture type



真空气体管路加热
Heating of vacuum gas
pipeline



半导体加热套
Semiconductor heating
sleeve



缝纫类-半导体加热套

Sewing type - semiconductor heating sleeve

1

“加热套”，又称为“包覆式加热器”

"Heating sleeve ", also known as "enveloping heater "

2

加热套是用来维持半导体产业中所使用的真空管路、气体管路中温度平衡作用。

A heating jacket is used to maintain temperature balance in vacuum and gas pipelines used in the semiconductor industry

3

当气体管路中的温度维持于一定范围内时，制程所产生的生成物将不易沉积或堵塞于管路中，因而可以减少机台的保养次数，同时可以延长相关设备的寿命

When the temperature in the gas pipeline is maintained within a certain range, the products generated in the process will not be easily deposited or blocked in the pipeline, thus reducing the maintenance frequency of the machine and extending the service life of related spare parts

4

加热套在半导体制程中起着至关重要的作用，尤其在WCVD工艺，金属蚀刻工艺，LP-CVD氮化工艺中，通过维持温度稳定、防止冷凝积聚和提高生产效率，确保了半导体生产的顺利进行和产品质量的稳定

Heating sleeves play a crucial role in semiconductor processes, especially in WCVD, metal etching, and LP-CVD nitriding processes. By maintaining temperature stability, preventing condensation accumulation, and improving production efficiency, they ensure the smooth progress of semiconductor production and stable product quality

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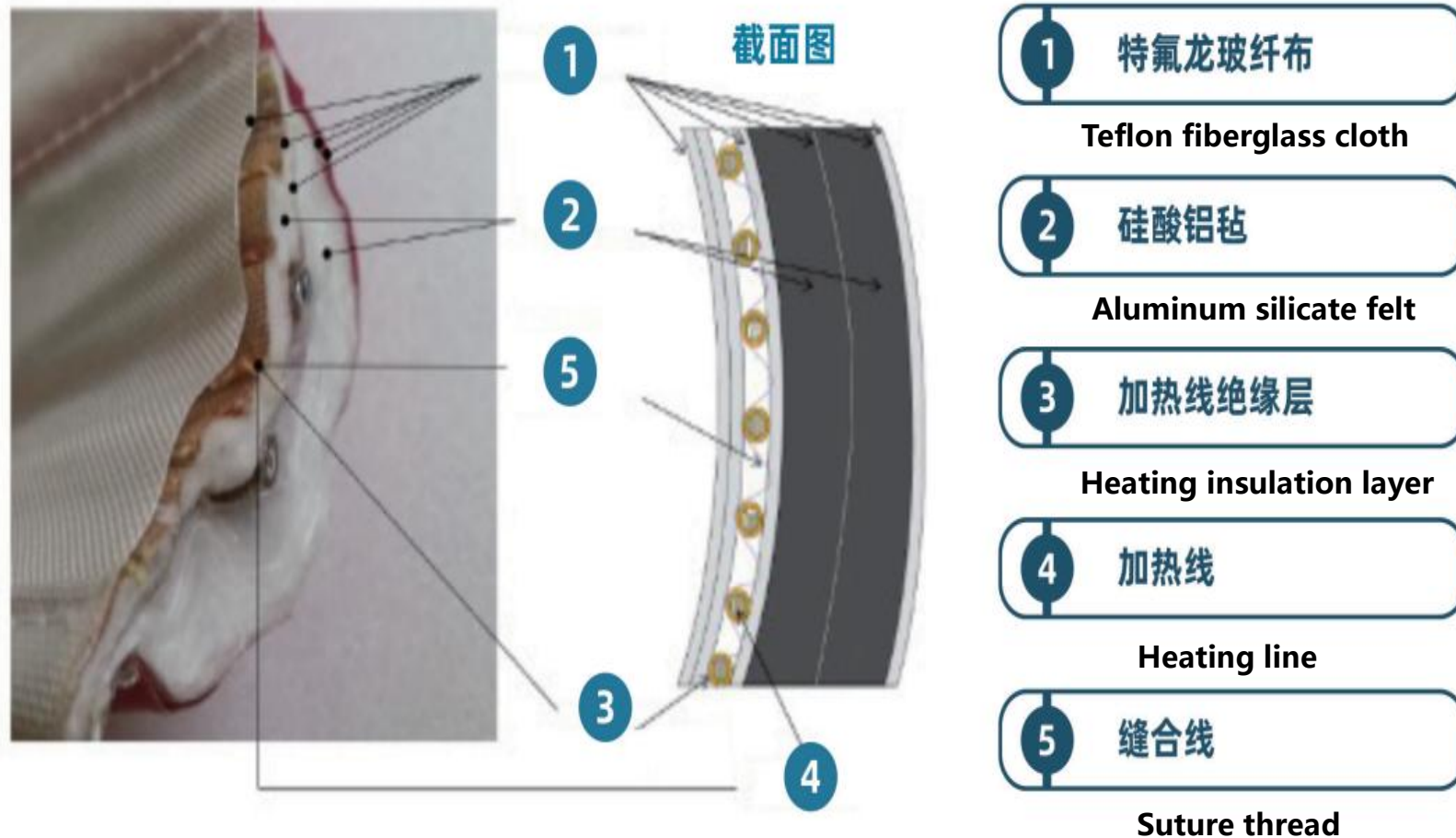


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半导体加热套结构

Semiconductor heating sleeve structure



半导体加热套原料

Semiconductor heating sleeve raw materials

紧固件(Fastener)		阻燃魔术贴(Velcro)
连接件(Connector)		Molex 8p& 6P
热电偶(Thermo couple)		K 型(K-type)
温控开关(Temp switch)		200°C
加热套尺寸(product size)		0.5m 以内
主材料(Material)	表层(Surface layer)	特氟龙纤维布(Teflon coated fiber glass)
	绝缘层(Insulation layer)	玻璃纤维棉(Fiber glass 15-20mm)
	加热丝(Thermal wire)	镍-铬合金(Ni-Cr)
	电源和信号线(Power&signal wire)	特氟龙电源线(PTFE)

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针刺复合类-隔热陶瓷纤维毯

Needle punched composite insulation ceramic fiber blanket



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
含锆型陶瓷纤维毯 Zirconium containing ceramic fiber blanket	N01-G001	耐温值C°temperature resistance	≤1400	广泛应用半导体真空管路,气体管路,管道、汽车、工程机械、船舶、机械装备、 焚炉等行业。通过单面或双面涂布硅胶, 能够达到良好的超高温 绝热、耐高压, 并具有良好的抗火焰冲击, 在防火领域应用尤为广泛, 特色: 重量轻, 耐高温。 Widely used in industries such as semiconductor vacuum pipelines, gas pipelines, pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone on one or both sides, it can achieve good ultra-high temperature insulation, high pressure resistance, and good flame impact resistance. It is particularly widely used in the field of fire prevention, characterized by light weight and high temperature resistance
		体积密度 (kg/M³) volume density	64/80/96/128/160	
		Al2O3(%) (2054)	39-40	
		SiO2(%)		
		ZrO2 (%) (2700)	15-17	

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Needle punched composite type - insulated fiberglass felt



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
玻纤毡 Glass fiber felt	N01- G006	耐温值C°temperature resistance	≤650	广泛应用汽车、工程机械、船舶 的隔热部位，借助玻 纤优异的隔热能力和耐温能力， 防止热害。 我们通过对玻璃纤维的遴选及工 艺的调整，向您推荐适合厚度容 重及硬度的产品。 Widely used in the insulation parts of automobiles, engineering machinery, and ships, utilizing the excellent insulation and temperature resistance of fiberglass to prevent heat damage. We recommend products suitable for thickness, bulk density, and hardness to you through the selection of glass fibers and adjustments to the manufacturing process
		SiO2(%)	50-55	
		环境保证	REACH/ROHS/E LV/ODOR	
		阻燃等级flame retardant rating	V0级	
		耐腐蚀性corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		体积密度 (kg/M³) volume density	100-150	
		热缩率heat shrinkage rate	10%	
		热失率Heating Deficit Rate	10%	
		导热系数heat conductivity coefficient	0.032- 0.40W/(m·K)	

针刺复合类-隔热陶瓷纤维毯

Needle punched composite insulation ceramic fiber blanket

ADEL



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
高铝型（喷吹）陶瓷纤维毯 High alumina (blown) ceramic fiber blanket	N01-G003	耐温值C°temperature resistance	≤1300	广泛应用管道、汽车、工程机械、船舶、机械装备、焚炉等行业。通过单面或双面涂布硅胶，能够达到良好的超高温 绝热、耐高压，并具有良好抗火焰冲击，在防火领域应用尤为广泛 Widely used in industries such as pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone on one or both sides, excellent ultra-high temperature insulation, high pressure resistance, and flame impact resistance can be achieved, making it particularly widely used in the field of fire prevention
		体积密度 (kg/M³) volume density	64/80/96/128/160	
		Al2O3(%) (2054)	51-52	
		SiO2(%)		
		ZrO2 (%) (2700)		

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针刺复合类-隔热陶瓷纤维毯

ADEL

Needle punched composite insulation ceramic fiber blanket



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
标准型陶瓷纤维毯 Standard ceramic fiber blanket	N01-G004	耐温值C°temperature resistance	≤1260	广泛应用管道、汽车、工程机械船舶、机械装备、焚炉等行业。通过单面或双面涂布硅胶，能够达到良好的超高温 绝热、耐高压，并具有良好抗火焰冲击，在防火领域应用尤为广泛 Widely used in industries such as pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone on one or both sides, excellent ultra-high temperature insulation, high pressure resistance, and flame impact resistance can be achieved, making it particularly widely used in the field of fire prevention
		体积密度 (kg/M³) volume density	64/80/96/128/160	
		Al2O3(%) (2054)	43-44	
		SiO2(%)	54	
		ZrO2 (%) (2700)		

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针刺复合类-隔热高硅氧毡

Needle punched composite insulation high silica felt

ADEL



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
高硅氧毡 High silica felt	N01-G005	耐温值C°temperature resistance	1000	隔热高硅氧毡广泛应用汽车排气系统、超高温工程管道、锅炉、反应釜的隔热保温，极大程度防止超高温热害。同时通过原料的选择，大大减少对皮肤的过敏刺激，是替代陶瓷毡的优秀选择 Thermal insulation high silicon oxide felt is widely used in automotive exhaust systems, ultra-high temperature engineering pipelines, boilers, and reaction vessels for thermal insulation, greatly preventing ultra-high temperature heat damage. At the same time, by selecting raw materials, it greatly reduces allergic irritation to the skin and is an excellent alternative to ceramic felt
		SiO2(%)	94-96	
		环境保证	REACH/ROHS/ELV/ODOR	
		阻燃等级flame retardant rating	V0级	
		耐腐蚀性corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		体积密度 (kg/M³) volume density	110-150	
		热缩率heat shrinkage rate	10%	
		热失率Heating Deficit Rate	10%	
		导热系数heat conductivity coefficient	0.032-0.035 W/m·K	

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针刺复合类-隔热玄武岩毡

Needle punched composite type - thermal insulation basalt felt



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
玄武岩毡 Basalt felt	N01-G007	耐温值C°temperature resistance	≤800	广泛应用在消防、重型设备、工业设施、汽车等防火耐温领域，其在同类材质中极低的导热系数使产品拥有绝佳的隔热效果；同时其拥有良好的高温降噪隔音功能。 Widely used in fire protection, heavy equipment, industrial facilities, automobiles and other fire and temperature resistant fields, its extremely low thermal conductivity among similar materials gives the product excellent insulation effect; At the same time, it has excellent high-temperature noise reduction and sound insulation functions.
		SiO2(%)	50-55	
		环境保证 environment	REACH/ROHS/ELV/ODOR	
		阻燃等级flame retardant rating	V0级	
		耐腐蚀性corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		体积密度 (kg/M³) volume density	100-150	
		热缩率heat shrinkage rate	10%	
		热失率Heating Deficit Rate	10%	
		导热系数heat conductivity coefficient	0.038Vt/mk @ 25C°	

复合类-隔热气凝胶毡

Composite thermal insulation aerogel felt

ADEL



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
气凝胶毡 Aerogel felt	N01-G008	耐温值C°temperature resistance	650	广泛应用管道、汽车、工程机械、船舶、机械装备、焚炉等行业。通过单面或双面涂布硅胶，能够达到良好的超高温 绝热、耐高压，并具有良好抗火焰冲击，在防火领域应用尤为广泛 Widely used in industries such as pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone on one or both sides, excellent ultra-high temperature insulation, high pressure resistance, and flame impact resistance can be achieved, making it particularly widely used in the field of fire prevention
		SiO2(%)	50-55	
		环境保证 environment	REACH/ROHS/ELV/ODOR	
		阻燃等级flame retardant rating	V0级	
		耐腐蚀性corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		体积密度 (kg/M³) volume density	150-200	
		热缩率heat shrinkage rate	10%	
		热失率Heating Deficit Rate	10%	
		导热系数heat conductivity coefficient	0.012~0.024W/(m·K)	

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复合类-隔热硅胶布

Composite type - thermal insulation silicone tape



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名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
玻纤硅胶布 Fiberglass silicone adhesive tape	N02-G001	SiO2(%)	50% - 55%	广泛应用管道、汽车、工程机械、船舶、机械装备、焚炉的隔热部位。通过涂布硅胶，达到更优隔热和耐压的效果，并且在生产中不易产生毛羽和飞丝 Widely used in insulation parts of pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone, better insulation and pressure resistance can be achieved, and it is not easy to produce feathers and flying threads in production
		短效推荐工况 short-term effect	320 C°	
		长效推荐工况 long-trem effect	250 C°	
		环境保证 environment	REACH/ROHS/ELV/ODOR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应 cost effect	极优的成本，适合大面积使用 Excellent cost, suitable for large-area use	
		绝缘等级 insulation level	A级	
		厚度范围 thickness range	0.38-0.41mm	

复合类-保温PTFE玻纤布

Composite type - insulation PTFE fiberglass cloth



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
PTFE 玻纤布 PTFE fiberglass cloth	N02-G005	SiO2(%)	50% - 55%	广泛应用半导体,电子PCB线路,管路保温、汽车、工程机械、船舶、机械装备、 焚炉等行业。通过单面或双面涂层PTFE，能够达到良好的超高温 绝热、耐高压，并具有良好抗火焰冲击，在防火领域应用尤为广泛 Widely used in industries such as semiconductors, electronic PCB circuits, pipeline insulation, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating PTFE on one or both sides, excellent ultra-high temperature insulation, high pressure resistance, and flame impact resistance can be achieved, making it particularly widely used in the field of fire prevention
		短效推荐工况 short-term effect	300 C°	
		长效推荐工况 long-term effect	280 C°	
		环境保证 environment	REACH/ROHS/ELV/ODOR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应 cost effect	超高温中最具性价比 The most cost-effective in ultra-high temperature	
		绝缘等级 insulation level	H级	
		厚度范围 thickness range	0.36-0.4mm	

复合类-隔热高硅氧布

Composite type - insulation high silicon oxide cloth



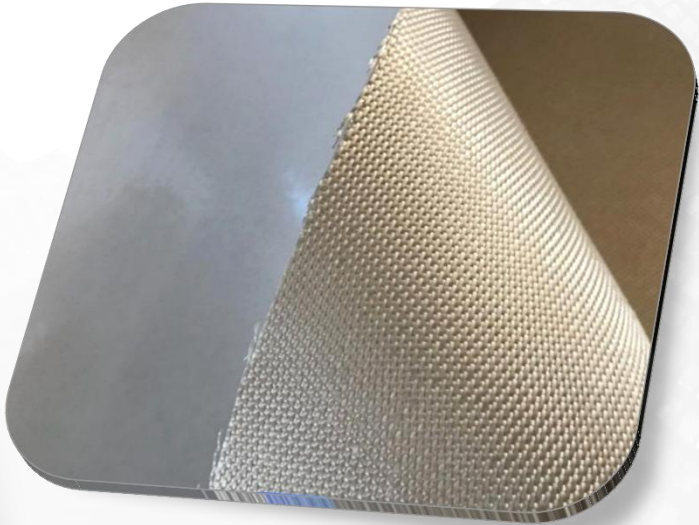
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名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
高硅氧布 High silicon oxide cloth	N02- G002	SiO2(%)	94% - 96%	主要应用于船舶管道工程、大型机械、 焚炉等等特高温 区域的隔热，是仅次于适应纤维的高 纯度高氧化硅纤维织物，在抗火焰冲 击领域也有不俗的效果 Mainly used for insulation in extremely high temperature areas such as ship pipeline engineering, large machinery, incinerators, etc., it is second only to high-purity and high oxide silicon fiber fabrics that are suitable for fibers. It also has remarkable effects in the field of flame impact resistance
		短效推荐工况 short-term effest	1200 C°	
		长效推荐工况 long-term effect	1000 C°	
		环境保证 environment	REACH/ROHS/ELV/ ODOR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应 cost effect	极优的成本，适合大 面积使用 Excellent cost, suitable for large- area use	
		厚度范围 thicknesss range	0.65mm-1.35mm	
		绝缘等级 insulation level	H级	江苏艾德琳科技有限公司 JIANGSU ADELIN TECHNOLOGY CO., LTD

复合类-隔热高硅氧硅胶布

Composite type - insulation high silicon oxide silicone tape

ADEL

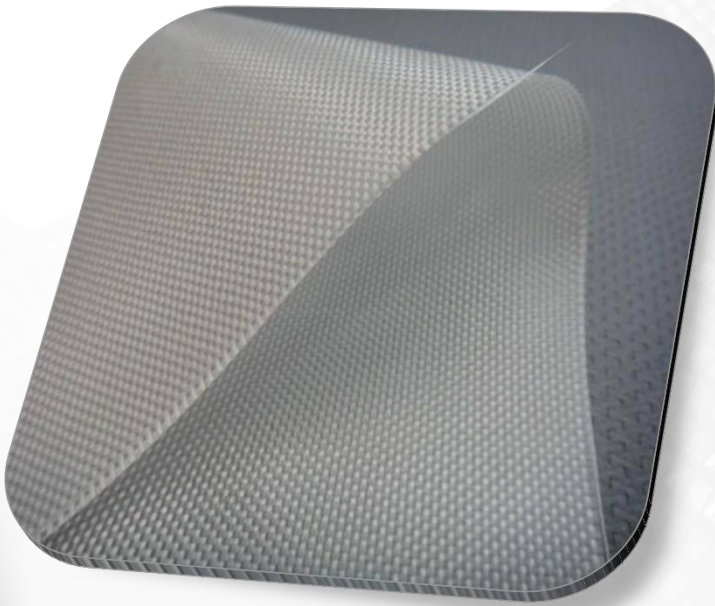


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名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
高硅氧硅胶布 high silicon oxide silicone tape	N02- G003	SiO2(%)	94% - 96%	广泛应用管道、汽车、工程机械、船舶、机械装备、 焚炉等行业。通过单面或双面涂布硅胶，能够达到良好的超高温 绝热、耐高压并具有良好抗火焰冲击，在防火领域应用尤为广 泛 Widely used in industries such as pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone on one or both sides, excellent ultra-high temperature insulation, high pressure resistance, and flame impact resistance can be achieved, making it particularly widely used in the field of fire prevention
		短效推荐工况 short-term effect	1200 C° (不考虑硅胶层) (Without considering the silicone layer)	
		长效推荐工况 long-term effect	1000 C° (不考虑硅胶层) (Without considering the silicone layer)	
		环境保证 environment	REACH/ROHS/ELV/OD OR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应cost effect	超高温中最具性价比 The most cost-effective in ultra-high temperature	
		绝缘等级 insulation level	H级	
		厚度范围 thickness range	0.6-0.75m	

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复合类-隔热玻纤布
Composite - Insulated Fiberglass Cloth



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名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
玻纤布 fiberglass cloth	N02-G004	SiO2(%)	50% - 55%	广泛应用管道、汽车、工程机械、船舶、机械装备、焚炉的隔热部位。通过涂布硅胶，达到更优隔热和耐压的效果，并且在生产中不易产生毛羽和飞丝 Widely used in insulation parts of pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone, better insulation and pressure resistance can be achieved, and it is not easy to produce feathers and flying threads in production
		短效推荐工况 short-term effect	320 C°	
		长效推荐工况 long-term effect	640 C°	
		环境保证 environment	REACH/ROHS/ELV/O DOR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应 cost effect	极优的成本，适合大面积使用 Excellent cost, suitable for large-area use	
		绝缘等级 insulation level	F级	
		厚度范围 thickness range	0.2-0.22mm	

复合类-隔热玄武岩布

Composite type - thermal insulation basalt cloth

ADEL



名称 Name	型号 Model	技术指标 TECHNICAL INDEX	指标值 Indicator value	用途 Usage
玄武岩布 Xuanwu Rock Cloth	N02-G006	SiO2(%)	50% - 55%	广泛应用管道、汽车、工程机械、船舶、机械装备、焚炉的隔热部位。通过涂布硅胶，达到更优隔热和耐压的效果，并且在生产中不易产生毛羽和飞丝 Widely used in insulation parts of pipelines, automobiles, engineering machinery, ships, mechanical equipment, and incinerators. By coating silicone, better insulation and pressure resistance can be achieved, and it is not easy to produce feathers and flying threads in production
		短效推荐工况 short-term effect	850 C°	
		长效推荐工况 long-term effect	800 C°	
		环境保证 environment	REACH/ROHS/ELV/ODOR	
		阻燃等级 flame retardant rating	V0级	
		耐腐蚀性 corrosion resistance	极优的耐腐蚀性 Extremely excellent	
		成本效应 cost effect	极优的成本，适合大面积使用 Excellent cost, suitable for large-area use	
		绝缘等级 insulation level	H级	
		厚度范围 thickness range	0.3-0.32mm	

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连续纱 (ECR continue glass fiber)

材质: 无碱ECR

纤维直径Filament Diameter(μm): 24 μm

氧化硅含量 $\text{SiO}_2(\%)$: 56~62

氧化钙含量 $\text{CaO}(\%)$: 20~25

氧化铝含量 $\text{Al}_2\text{O}_3(\%)$: 11~15

热失量Heat Loss(%): < 0.65%(GB/T9914.2-2013)

使用温度Temperature($^{\circ}\text{C}$): 750 $^{\circ}\text{C}$

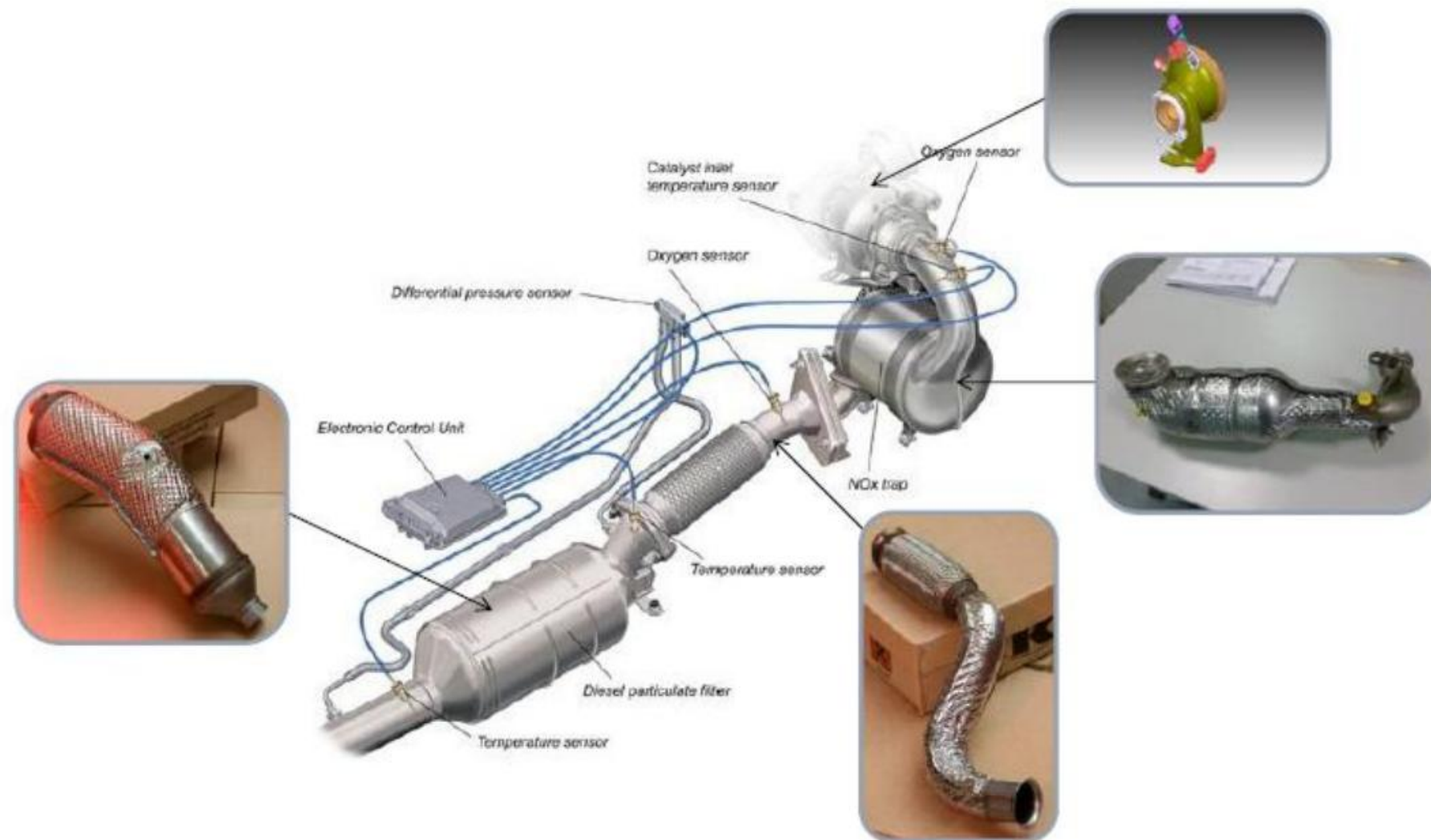
非胶粘长纤维膨体毡

ADEL



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定制要求信息提供

Customization requires information to be provided

提供信息 Provide information	管路图纸或数模 pipeline drawings or numerical models	
	环境要求 environmental requirements	
	温度区间 temperature range	
特殊要求 Special requirements	耐腐蚀 corrosion resisting	
	产品厚度 product thickness	
	拼接方式 splicing method	
	特殊工艺 special technology	
	目标要求 target requirements	
加热参数 Heating parameters	额定电压 rated voltage	
	额定功率 rated power	
	最大温度 Max temperature	
	是否提供温表 provide a temperature gauge or not	

高温保护

High Temperature Protection



石棉很早就用于织布，石棉具有高度耐火性、电绝缘性和绝热性，是重要的防火、绝缘和保温材料。石棉制品或含有石棉的制品有近3000种。主要用于机械传动、制动以及保温、防火、隔热、防腐、隔音、绝缘等方面，其中较为重要的是汽车、化工、电器设备、建筑业等制造部门

Asbestos has been used for weaving for a long time. Asbestos has high fire resistance, electrical insulation, and thermal insulation properties, making it an important material for fire prevention, insulation, and thermal insulation. There are nearly 3000 types of asbestos products or products containing asbestos. Mainly used for mechanical transmission, braking, insulation, fire prevention, insulation, anti-corrosion, sound insulation, insulation and other aspects, among which the more important ones are in manufacturing sectors such as automotive, chemical, electrical equipment, and construction industry

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- 石棉本身并无毒害，它的最大危害来自于它的粉尘，当这些细小的粉尘被吸入人体内，就会附着并沉积在肺部，造成肺部疾病，石棉已被国际癌症研究中心肯定为致癌物。
- Asbestos itself is not toxic, and its biggest hazard comes from its dust. When these small dust particles are inhaled into the human body, they will adhere and deposit in the lungs, causing lung diseases. Asbestos has been confirmed as a carcinogen by the International Center for Research on Cancer
- 另一方面，极其微小的石棉粉尘飞散到空中，被吸入到人体的肺后，经过20到40年的潜伏期，很容易诱发肺癌等肺部疾病。这就是在世界各国受到不同程度关注的石棉公害问题。在欧洲，据预测到2020年因石棉公害引发的肺癌而致死的患者将达到50万人。而在日本，预测到2040年将有10万人因此死亡。
- On the other hand, extremely small asbestos dust flies into the air and is inhaled into the lungs of the human body. After a latent period of 20 to 40 years, it is easy to induce lung diseases such as lung cancer. This is the asbestos pollution problem that has received varying degrees of attention in countries around the world. In Europe, it is predicted that by 2020, the number of patients who will die from lung cancer caused by asbestos pollution will reach 500000. In Japan, it is predicted that 100000 people will die as a result by 2040
- 暴露于（长期吸入）一定量的石棉纤维或元纤维可引发下列疾病：Exposure to (long-term inhalation) a certain amount of asbestos fibers or elemental fibers can cause the following diseases
- 肺癌、胃肠癌 Lung cancer, gastrointestinal cancer
- 间皮癌-胸膜或腹膜癌 Mesothelial cancer - pleural or peritoneal cancer
- 石棉沉着病 - 因肺内组织纤维化而令肺部结疤（石棉肺）Asbestosis - Scarring of the lungs due to fibrosis of lung tissue (asbestosis)
- 与石棉有关的疾病症状，往往会有很长的潜伏期，可能在暴露于石棉大约10至40年才出现（肺癌一般15~20年、间皮瘤20~40年）。
- The symptoms of asbestos related diseases often have a long incubation period, which may take about 10 to 40 years to appear after exposure to asbestos (lung cancer usually takes 15 to 20 years, mesothelioma takes 20 to 40 years)

耐高温材料

High temperature resistant material

陶瓷纤维----耐温1400℃

Ceramic fiber - temperature resistance of 1400 °C

碳纤维---- 2000 °C Min

Carbon fiber -2000 °C Min

玻璃纤维----耐温650 °C Max

Fiberglass - Temperature resistant to 650 °C Max

高硅氧玻璃纤维----耐温1092 °C Max (国内1000)

High silica glass fiber - Temperature resistance of 1092 °C Max (domestic 1000)

气凝胶纤维----耐温650℃

Aerogel fiber---- temperature resistance 650 °C

真空绝热板

Vacuum insulation board

耐高温材料 High temperature resistant material



玻璃纤维棉
Glass fiber
cotton

高硅氧棉
High silicon
oxide cotton



玻璃纤维线
Glass fiber
thread

高硅氧线
High silicon
oxide thread



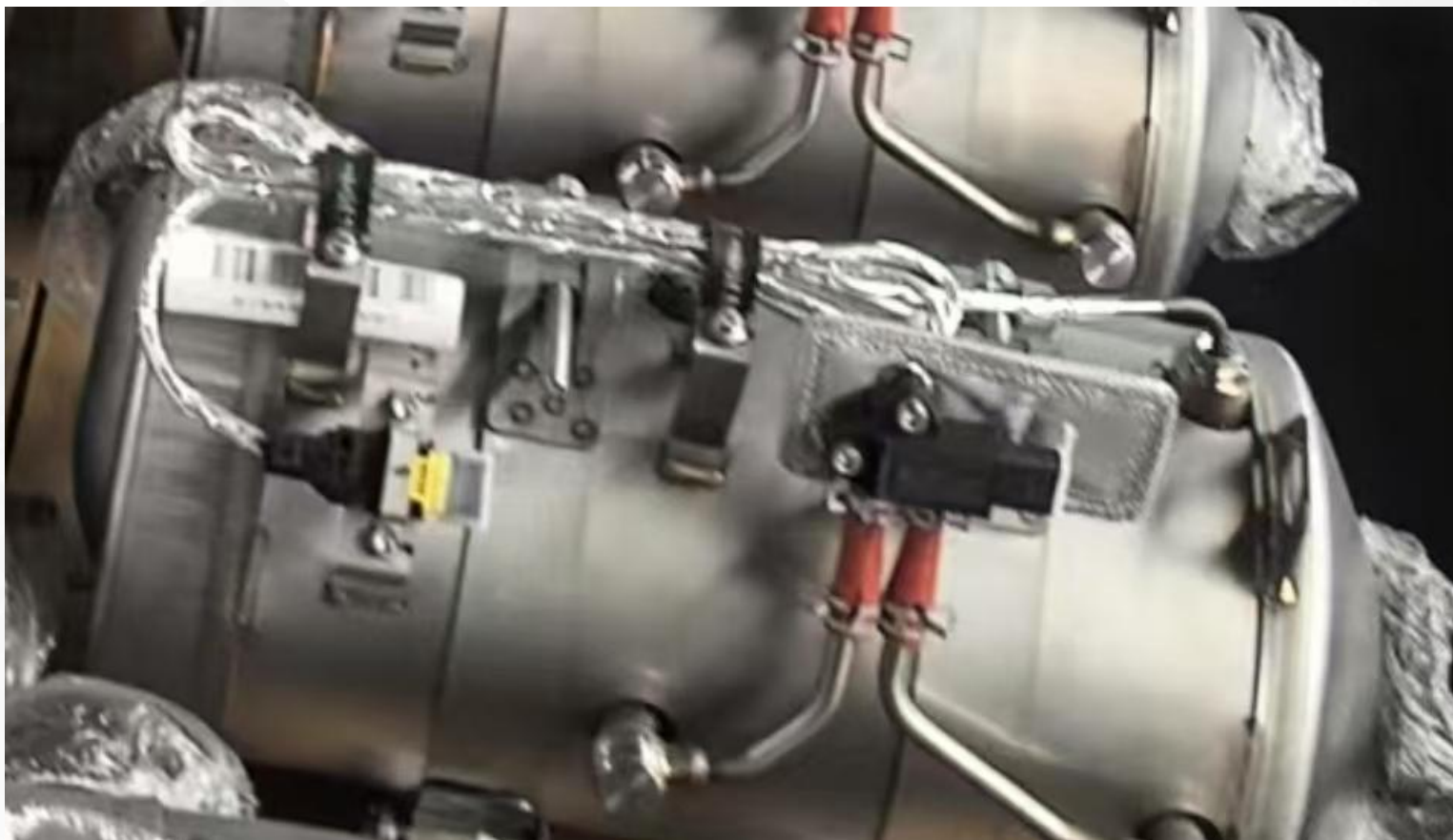
玻璃纤维布
Glass fiber
cloth

高硅氧布
High silicon
oxide cloth



农机项目

Agricultural Machinery Project(WORLD GROUP)



农机项目

Agricultural Machinery Project(CHANGFA GROUP)



工程机械 Construction machinery

- Diesel Engine Classifications for - Emissions Control – High Temperature Protection of wiring harnesses, hoses and cabling.
- MSHA Certification for underground applications for fire protection on equipment.



Transit: High Speed Rail/ Subway / Passenger Train & Rail Equipment

- Passive Fire Protection within People Carriers
- Swarf Grinding Equipment for Rail Maintenance Protective Curtain
- Subway Third Rail Shoe Protective Curtain for Arcing Sparks



船机项目 Ship engine project



中石油项目 PetroChina project



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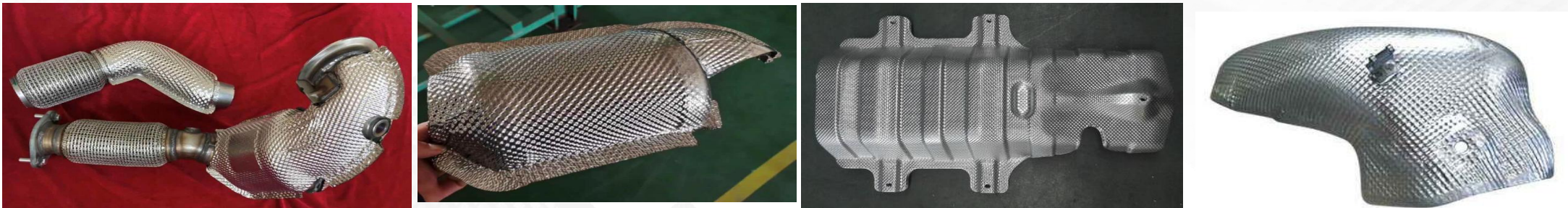
新能源电池包裹衣

New energy battery wrap



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新隔热罩零件 New insulation cover parts



- ❑ 材料：0.15mm或0.3mm的304不锈钢，内部粘贴耐高温玻璃纤维。Material: 0.15mm or 0.3mm 304 stainless steel, with high-temperature resistant glass fiber pasted inside
- ❑ 传统隔热为铝箔+玻璃纤维包裹，均属于手工传统制作工艺，成本高且效率低。
- ❑ Traditional insulation is wrapped in aluminum foil and fiberglass, both of which are handmade traditional manufacturing processes with high cost and low efficiency
- ❑ 新型隔热罩，具有重量轻，隔热效果好，保持后处理系统有效催化温度等特点，从而减少污染物的排放。
- ❑ The new type of heat shield has the characteristics of light weight, good heat insulation effect, and maintaining effective catalytic temperature of the post-treatment system, thereby reducing the emission of pollutants
- ❑ 目前已将隔热新技术推广至徐工、三一、凯龙、依柯卡特等企业。
- ❑ At present, the new insulation technology has been promoted to enterprises such as XCMG, Sany, Kailong, and Ecocat

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轻卡新型隔热装置

New insulation device for light trucks



- ❑ 凯龙、康明斯商用车国六产品应用不锈钢或镀铝板+玻璃纤维的技术路线制作的新型隔热装置，隔热保温并提高催化转化效率，成本较低，外观美观等特点。
- ❑ The new type of insulation device for commercial vehicles produced by Kailong and Cummins using the technology route of stainless steel or aluminum plate+glass fiber in China VI products is characterized by low cost, improved catalytic conversion efficiency, and attractive appearance

中、重卡新型隔热装置

New insulation device for medium and heavy trucks



- ❑ 凯龙、康明斯商用车国六产品应用双层不锈钢+玻璃纤维的技术路线制作的新型隔热装置，隔热保温并提高催化转化效率，成本较高，外观美观等特点。
- ❑ The new insulation device for commercial vehicles produced by Kailong and Cummins using the technology route of double-layer stainless steel+glass fiber in China VI products is characterized by high cost, improved catalytic conversion efficiency, and aesthetic appearance
- ❑ 银轮、依科卡特目前只采用这种技术路线，但是在如今商用车的市场下，已在寻找厂家配套开发不锈钢或镀铝板+玻璃纤维的技术路线来降低成本的目的。
- ❑ Yinlun and Yikekate currently only use this technology route, but in the current commercial vehicle market, they are looking for manufacturers to develop a technology route of stainless steel or aluminum plating+fiberglass to reduce costs

排气管隔热装置 (三一) Exhaust pipe insulation device (Sany)

Sample Handmake

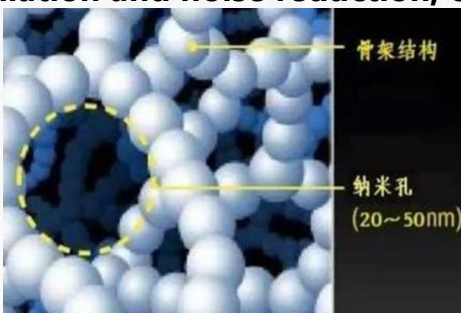


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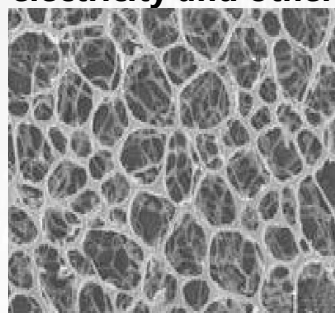
气凝胶是一种隔热性能优异的固体材料，具有高比表面积，纳米级孔洞，低密度等特殊的微观结构，基于这些结构在热学方面表现出优异的性能。它的导热系数 $\sim 0.012\text{W/mk}$ 、密度 $\sim 160\text{kg/m}^3$ 、比表面积在 $400\text{-}1000\text{m}^2/\text{g}$ 、孔隙率为 $90\text{-}99.8\%$ ，它化学性能稳定。

其被称为“**改变世界的神奇材料**”，又被称为“**终极保温绝热材料**”，是目前最轻的**固体材料**。气凝胶具有三维**纳米网络多孔结构**的材料，具有低密度、高比表面积、高孔隙率、低介电常数、低热导率等物理特性，在保温绝热、防火阻燃、隔音降噪、光学、电学等领域具有广泛的应用前景。Aerogel is a kind of solid material with excellent thermal insulation performance. It has special microstructures such as high specific surface area, nanoscale pores, low density, etc. Based on these structures, it shows excellent thermal performance. Its thermal conductivity is 0.012W/mk , density is 160kg/m^3 , specific surface area is between $400\text{-}1000\text{m}^2/\text{g}$, porosity is $90\text{-}99.8\%$, and its chemical properties are stable.

It is known as the "magical material that changes the world" and also known as the "ultimate insulation material", and is currently the lightest solid material. Aerogel is a material with three-dimensional nano network porous structure, which has low density, high specific surface area, high porosity, low dielectric constant, low thermal conductivity and other physical properties. It has broad application prospects in thermal insulation, fire prevention and flame retardancy, sound insulation and noise reduction, optics, electricity and other fields



微观示意图
Microscopic
schematic image



微观电镜图
Microscopic
electron
microscopy
image



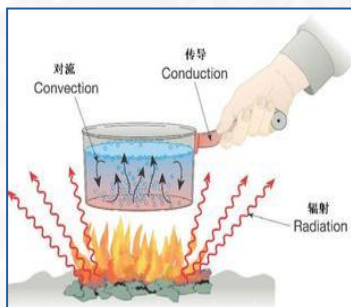
实物图
Physical
picture

气凝胶 Aerogel

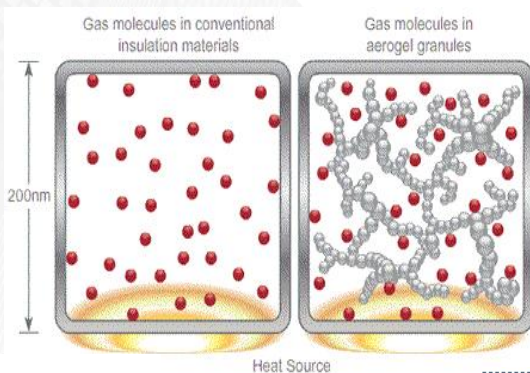
气凝胶在热学、光学、电学、声学等方面都表现出独特的性质，最为突出的应用就是作为一种新型的纳米绝热保温材料。由于气凝胶所具有的纳米孔径，小于空气分子平均自由程的69nm，因此可以显著降低气体分子热传导和热对流的程度，同时其纤细的三维网络结构增加了固体传热的通路，从而降低了固相传热效率，这一系列特征使得气凝胶成为绝热保温材料的绝佳选择。

Aerogel shows unique properties in thermal, optical, electrical, acoustic and other aspects, and its most prominent application is as a new nano thermal insulation material. Because the nano pore size of aerogel is smaller than 69 nm of the average free path of air molecules, it can significantly reduce the degree of heat conduction and heat convection of gas molecules. At the same time, its thin three-dimensional network structure increases the path of solid heat transfer, thus reducing the solid phase heat transfer efficiency. This series of characteristics make aerogel an excellent choice for thermal insulation materials.

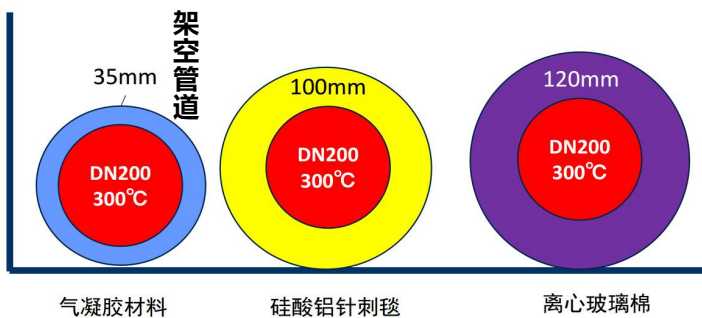
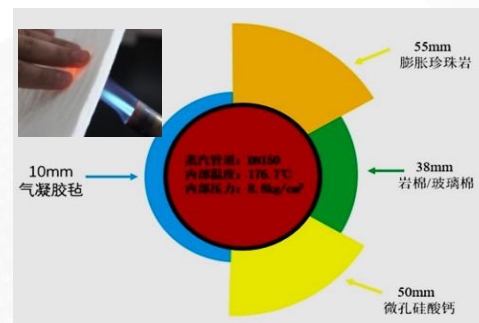
热传递方式



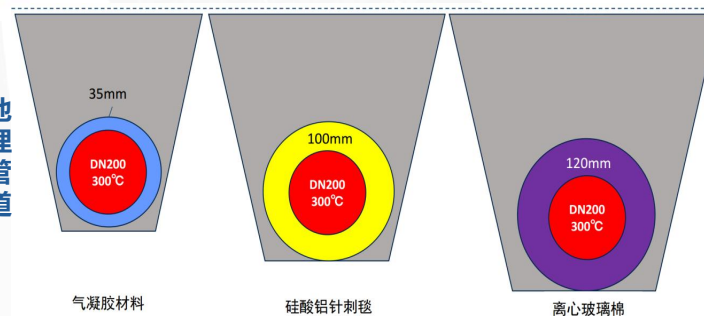
动态展示



厚度对比



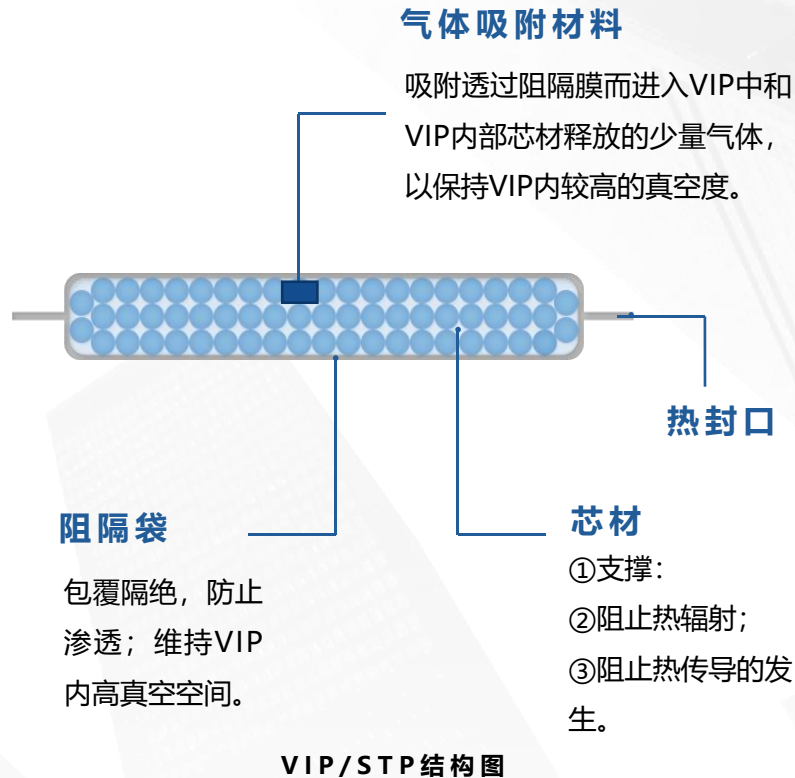
地埋管道



真空节能材料简介

真空绝热板（VIP）是英文Vacuum Insulation Panel的简称，是真空保温材料中的一种，是由填充芯材与真空保护表层复合而成。芯材由保温材料制成，具有低的热传导，铝箔膜和芯材可以有效阻挡热辐射，内部真空有效地避免空气对流引起的热传递，因此导热系数可大幅度降低，冷藏类小于 0.0025W/m.K ，建筑类小于 0.008W/m.K ，并且不含有任何ODS（消耗臭氧层物质Ozone Depleting Substance）材料，具有环保和高效节能的特性，是目前世界上最先进的高效保温材料之一，2019年被列为国家战略新兴产业重点产品和鼓励发展类行业。

其又被称为：STP（Super Thin Panel）



Introduction of Vacuum Energy saving Materials

Vacuum Insulation Panel (VIP) is an abbreviation for Vacuum Insulation Panel in English. It is a type of vacuum insulation material composed of a filling core material and a vacuum protection surface layer. The core material is made of insulation material and has low thermal conductivity. The aluminum foil film and core material can effectively block thermal radiation, and the internal vacuum can effectively avoid heat transfer caused by air convection. Therefore, the thermal conductivity can be greatly reduced. The refrigeration class is less than 0.0025W/m.K , and the construction class is less than 0.008W/m.K , and does not contain any ODS (Ozone Depleting Substance) material. It has the characteristics of environmental protection and high efficiency and energy saving, and is currently one of the most advanced and efficient insulation materials in the world. In 2019, it was listed as a national strategic emerging industry key product and encouraged development industry.

It is also known as STP (Super Thin Panel)

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真空绝热板与传统保温材料对比

	真空绝热板 (VIP/STP)	聚苯板 (EPS)	挤塑板 (XPS)	聚氨酯板 (PU)	酚醛板 (PF)	岩棉板	发泡陶瓷板
密度 (kg/m³)	200-300	18-22	28-32	40-60	60-120	140	150-180
导热系数 (W/ m²·K)	≤0.006	≤0.040	≤0.032	≤0.024	≤0.035	≤0.048	≤0.06
防火等级	A级	B1级	B2级	B2级	B1级	A级	A级
主要材料成分	气相二氧化硅、 高阻气箔膜	石墨聚苯乙烯	聚苯乙烯	二异氰酸酯或多 异氰酸酯与二羟 基或多羟基化合 物	苯酚和甲醛的缩 聚物	玄武岩、 辉绿岩	陶瓷浆料
80%节能需要材料 厚度	30~35mm	170~180mm	140~150mm	110~120mm	160~170mm	180~190mm	220mm以上
材料优点	低导热系数、 防火性能优异、 吸水率低、 质量轻、 便于施工	保温效果较好 低吸水率 质量轻 施工便捷	保温效果较好 低吸水率 质量轻 施工便捷	保温效果较好 低吸水率 质量轻 施工便捷	保温效果较好	保温效果较好、防 火性能优异	防火性能优异
材料缺点	水蒸气渗透系数 较低、施工中需 要采取注意措施 防止真空破坏	抗剪切力不足 安全系数居中 防火性能不足 热阻保留率低	光面板粘结强度 较低、 防火性能不足	材料收缩率高、 上墙后导致开裂、 防火性能较差	易粉化、不宜切 割、吸水率高、 系统强度低	材料吸水率高、抗 拉强度低、施工难 度大	施工难度大， 需用模板

Comparison between vacuum insulation board and traditional insulation materials							
	真空绝热板 (VIP/STP)	聚苯板 (EPS)	挤塑板 (XPS)	聚氨酯板 (PU)	酚醛板 (PF)	岩棉板	发泡陶瓷板
Density (kg/m ³)	200-300	18-22	28-32	40-60	60-120	140	150-180
Thermal conductivity (W/m ² ·K)	≤0.006	≤0.040	≤0.032	≤0.024	≤0.035	≤0.048	≤0.06
防火等级 Fireproof level	A级	B1级	B2级	B2级	B1级	A级	A级
主要材料成分 Main material components	气相二氧化硅、 高阻气箔膜 Gas phase silicon dioxide, high resistance gas foil film	石墨聚苯乙烯 Graphite polystyrene	聚苯乙烯 polystyrene	二异氰酸酯或多异 氰酸酯与二羟基或 多羟基化合物 Diisocyanates or polyisocyanates with dihydroxy or polyhydroxy compounds	苯酚和甲醛的缩聚物 Polymer of phenol and formaldehyde	玄武岩、 辉绿岩 Basalt diabase	陶瓷浆料 Ceramic slurry
80%节能需要材料厚度 80% energy saving requires material thickness	30~35mm	170~180mm	140~150mm	110~120mm	160~170mm	180~190mm	220mm以上

材料优点 Material advantages	Low thermal conductivity Excellent fire resistance Low water absorption rate Lightweight Easy to construct	Good insulation effect Low water absorption rate light weight Convenient construction	Good insulation effect Low water absorption rate light weight Convenient construction	Good insulation effect Low water absorption rate light weight Convenient construction	The insulation effect is relatively good	Good insulation effect and excellent fire resistance	Excellent fire resistance
材料缺点 Material Disadvantages	The water vapor permeability coefficient is low, and precautions need to be taken during construction to prevent vacuum damage	Insufficient shear resistance The safety factor is centered Insufficient fire resistance performance Low thermal resistance retention rate	The bonding strength of the light panel is relatively low Insufficient fire resistance performance	High material shrinkage, cracking after installation on the wall, and poor fire resistance	Easy to pulverize, not suitable for cutting, high water absorption rate, low system strength	The material has high water absorption rate, low tensile strength, and is difficult to construct	Construction difficulty is high, requiring templates

ISO9001
79324Q1296R0S
2024/11/20~2027/11/19



ISO14001
79324E1297R0S
2024/11/20~2027/11/19



ISO45001
79324S1298R0S
2024/11/20~2027/11/19



ISO9001
79324Q1296R0S
2024/11/20~2027/11/
19

ISO14001
79324E1297R0S
2024/11/20~2027/11/
19

ISO45001
79324S1298R0S
2024/11/20~2027/11/
19



IATF16949:2016 第1版

注册日期(Registration date): 2024年08月08日
有效期至(Valid until): 2027年08月07日
IATF证书编号(Certificate number): 0536316



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Certificate 一无石棉 Non-asbestos



检测报告

报告编号 NID01K000847001C

第 3 页 共 5 页

检测方法

测试项目	前处理方法	测试方法	测试仪器
石棉	灰化处理/酸处理/悬浮沉降法	ISO 22262-1:2012 NIOSH 9000:1994 NIOSH 9002:1994	PLM+XRD

检测结果

测试项目	石棉(CAS 1332-21-4)					
物质/CAS 编号	温石棉/ 12001-29-5	青石棉/ 12001-28-4	铁石棉 (铁闪石) / 12172-73-5	纤维状 透闪石 / 77536-68-6	纤维状 阳起石/ 77536-66-4	纤维状 直闪石/ 77536-67-5
测试结果	未检出	未检出	未检出	未检出	未检出	未检出

测试样品/部位描述 白色棉

备注:

-未检出 = 未发现任何石棉成分 (小于检出限)

符合性声明

-对于样品中纤维或者纤维束的检出及分辨能力定义为该方法的检出限。对于本方法来说, 经过适当的前处理步骤后, 检出限能够低于 0.1%。
-如果检出石棉, 报告上将体现含量范围: 微量 (<0.1%), 0.1%~5%, 5%~50%和 50%~100%。
-针对含有经过研磨处理的石棉纤维或者纤维体积 (长度、直径) 过小的制品, 使用偏光显微镜(PLM)方法很难发现其中的石棉纤维的存在。
-XRD 无法区分被分析样品的形态。当样品中同时含有蛇纹石矿物 (或角闪石矿物) 与蛇纹石类石棉 (或角闪石类石棉), 使用 XRD 无法分辨其中的纤维与非纤维成分。
-华测检测石棉检测中心按照国际标准建立了严格的质量监督和质量保证程序, 并定期参加英国 AIMS*能力比对计划 (一年四次) 以验证实验室的检测能力。
*AIMS 是一项国际实验室间针对材料中石棉检测的能力比对计划, 它是由代表英国职业健康安全委员会 (HSE) 的职业健康安全实验室 (HSL) 组织举办的。

江苏艾德琳科技有限公司

JIANGSU ADELINE TECHNOLOGY CO., LTD

Certificate—玻纤耐温 Fiberglass temperature resistance

CTI 华测检测
CENTRE TESTING INTERNATIONAL

检测报告 Test Report

报告编号 A2180105126101E

第 3 页 共 4 页

Report No. A2180105126101E

Page 3 of 4

测试项目: 高温试验

Test Item: High temperature test

1. 测试设备 Test Equipment

设备名称 Equipment Name	型 号 Model
马弗炉 Muffle furnace	SXL-1008

2. 环境条件 Environmental Conditions

温度: 23.8℃; 湿度: 62%R.H.

Temperature: 23.8℃; Humidity: 62%R.H.

3. 测试结果

Test Result(s)

序号 No.	样品名称 Sample Name	检测项目 Test Item	检测结果 Test Result	备注 Remark
1	玻纤棉 Fiberglass	高温试验 (650℃, 1h) High temperature test (650℃, 1h)	样品颜色无变化 There is no change in the color of the sample	/

江苏艾德琳科技有限公司

JIANGSU ADELINE TECHNOLOGY CO., LTD

Certificate—高硅氧耐温 High silicon oxygen temperature resistance

MA CNAS 国家建筑材料工业 耐火材料产品质量监督检验测试中心 006000439M 材料质监认字09号

检 验 报 告 副 本

中心编号: 2019-192 共1页 第1页

委托单位: 无锡市艾晟科技有限公司	委托日期: 2019年4月30日
生产单位: 无锡市艾晟科技有限公司	报告日期: 2019年5月20日
产品名称: 高硅氧玻璃纤维制品	型号规格: 300*300*20
样品状况: 完好	数 量: 3 块

检 验 结 果			
检验项目	试验条件	平均值	检验依据或说明
加热线收缩率(%)	1000℃×1h	3.9	GB/T 17911-2006
失重(%)	1000℃×1h	7.0	
导热系数 W/(m·K)	热面 500℃	0.045	YB/T 4130-2005
	热面 600℃	0.062	
	热面 700℃	0.080	
	热面 800℃	0.096	
	热面 900℃	0.111	

以下空白

注: 1. 本报告无中心“检测专用章”和骑缝章无效。
2. 报告无主检、审核、批准人签章无效。
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5. 委托检验仅对来样负责。

批准: 李少华 审核: 李少华 主检: 潘伟才

检测专用章

Certificate—高硅氧材质 High silicon oxide material

ADEL

国家教育部
STATE EDUCATION MINISTRY
南京大学现代分析中心
MODERN ANALYSIS CENTER, NANJING UNIVERSITY

检测报告

REPORT FOR DETECTING AND ANALYZING

委托单位: 无锡市艾德琳科技有限公司 (TRUSTING UNIT)	送样日期: 2019 年 07 月 21 日 (DATE OF SAMPLE DELIVERING)
样品名称: 高硅氧纱 (SAMPLE NAME)	样品状态: 白色泛黄纤维丝 (SAMPLE STATE)
检测设备: ARL9800XP 型 X 射线荧光光谱仪 (INSTRUMENT)	检测项目: 元素近似定量分析 (DETECTING ITEMS)
检测依据: JY/T 016 1996 《波长色散型 X 射线荧光光谱方法通则》 (BASIS FOR DETECTING)	

分析检测结果

RESULTS OF DETECTING AND ANALYZING

检测元素以氧化物表示结果如下 (计量单位: 质量百分数):				
项目	含量		项目	含量
SiO ₂	94.72		As ₂ O ₃	0.007
Al ₂ O ₃	1.86		Nb ₂ O ₅	0.004
TiO ₂	0.86		以下空白	
MgO	0.64			
Na ₂ O	0.24			
CeO ₂	0.16			
ZrO ₂	0.15			
Fe ₂ O ₃	0.15			
Cl	0.12			
CaO	0.080			

样品经研磨成细粉后压片检测。

检测人: 张孟群
(IDENTIFIER)

中心主任 (章):
(DIRECTOR)

检测机构 (公章)
(TESTING LABORATORY)

报告日期: 2019 年 07 月 22 日
(REPORTING DATE)

报告第 1 页共 1 页 (其中图 / 页; 表 / 页)

- 说明:
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 3. 本报告仅对送检样品负责, 检测结果仅反映对所检样品的评价, 检测结果的运用、使用后产生的直接或间接损失, 检测方不承担任何责任。
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邮编: 210093 电话 (Tel.): (025)83592318

Modern Center Analysis, Nanjing University
Hankou Road 22, Nanjing 210093, P.R. China

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Type Approval Certificate



Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the C. Type Approval System.

Gen Score No. 8615909 HH
Company ADL Insulflex, Inc.
2735 Dale Road
Cobourg, Ontario, CANADA K9A4J9

Product Description FIRE PROTECTION SLEEVE

Type PYRO-JACKET PJA-03 - PJA-00

Environmental Chemistry and Nanotechnology

Technical Data: TECHNICAL DATA

Range of Application:	Construction:	Woven high bulk fiber glass, coated with a covering of non oxide silicone rubber.
	Identification:	Certificate Number and/or Manufacturer and Type description
	Inner Diameter:	13 mm - 127 mm

RANGE OF APPLICATION:

The above mentioned fire sleeve may be used as fire protection cover according to ISO 15649 for type approved hoses by Germanischer Lloyd.

INSTALLATION

The selection of the fire sleeve for the intended use and the right installation is to be in accordance with the instructions of the manufacturer.

Test Standard: VI-7-4: Test Requirements for Components and Systems of Mechanical Engineering and Offshore Technology, Edition 2008.

Documents:

- Fire Test according to ISO 15540, 1998/ ISO 15541:1999
- Test Report D906 with FJA400, D937 with FJA25
- Test Report D931 with FJA32, D9100 with FJA60
- Technical Information: Insulated Material Safety Data Sheet

Fernandez	None
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via d'unt: 20/5-02-07

Page 1 of 1

 $F \in \mathcal{V}_0, \quad \|D, F\|$

Hamby, 2010-04-16

Type Approval Symbol



Germanischer Lloyd

1. **परिचय**

Pradip Banerjee

Information presented herein is based on "Guidelines for the Performance of Two-Test Part C Processing"

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High Temperature Protection

INSULFLEX®
Solving high temperature problems worldwide



Aerostyle Pyrojacket®

The world's most certified fire protection sleeve.



Aerostyle Pyrojacket - Quick Facts	
Custom colours available by special order.	
Sizes up to 5" (127mm) diameter.	
Continuous operating temp:	500°F (260°C)
Max short term exposure	3000°F (1650°C)
Molten splash resistance:	Outstanding
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility	Outstanding
Water and oil resistance:	Outstanding

Proudly offering the following certifications and specifications:

- ✓ UL 1441 Certified
- ✓ VW1 Flame Test Certified
- ✓ MSHA Certified for use in underground mines
- ✓ SAE AS1072E
- ✓ GL - Germanischer Lloyd Certified for 800°C for 30 minutes
- ✓ BS EN 373 Molten Splash Tested
- ✓ BS EN 388 Abrasion Tested
- ✓ BS EN ISO 6940 Flame Resistance Tested
- ✓ BS EN ISO 6530 Oil Resistance Tested
- ✓ BS 2576 Tensile Strength Tested
- ✓ DIN 54837 / 5510-2 Rail Vehicle Certified for Resistance to Combustibility
- ✓ DIN 5659-2 / 5510-2 Rail Vehicle Certified for Toxicity
- ✓ LNE French Rail Certification STM-S-001; Class F0



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Phone: (800) 461-9323 or (905) 377-1488
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Website: www.adlinsulflex.com

UL1441—防火，阻燃测试
Fireproof and flame retardant testing
VW1—耐燃等级
Flame resistance level
MSHA--矿业安全健康管理认证
Mining Safety and Health Management Certification
GL—船级社认证
Classification Society Certification
BS EN 373—耐熔融金属飞溅物标准
Standard for resistance to molten metal splashes
BS EN 388—耐磨标准
Wear resistance standard
BS EN ISO 6940—防火测试
Fireproof Testing
BS EN ISO 6530—防水测试
Waterproof Testing
BS 2576—抗拉强度测试
Tensile strength test
DIN 54837/5510-2—防火测试
Fireproof Testing
DIN 5659-2/5510-2—毒性测试(高温)
Toxicity testing (high temperature)
LNE French Rail Certification STM-S-001-- 防火测试
Fireproof Testing

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Thank You