

辐射交联聚乙烯热收缩带（套）

Radiational Cross-Linked Polyethylene Heat- Shrinkable Sleeve

深圳市长园长通热缩材料有限公司

SHENZHEN CHANGYUAN CHANGTONG HEAT-SHRINKABLE MATERIAL CO.,LT

辐射交联聚乙烯热收缩带（套）

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公司 介绍

深圳市长园长通热缩材料有限公司（简称**长园长通**）是中国最大的热缩材料生产企业深圳市长园新材料股份有限公司（股票代码：600525）属下的高新技术企业。

Shenzhen Changyuan Changtong Heat-shrinkable Material Co., Ltd (SCCHM) is a subordinate high-tech enterprise of Shenzhen Changyuan New Material Co., Ltd. (SCNM), which is the biggest base producing heat-shrinkable material in China（Stock Code:600525）。

长园长通专业从事管道防腐用热缩材料、通讯电缆接续热缩套管及复合增强型热缩材料等系列产品的研发、生产、施工和销售。公司拥有一批训练有素的以博士、硕士为骨干，最早从事热缩产品和工艺研发的各类专业技术和管理人才。具有强大的工艺技术开发和产品创新能力，并拥有多项自主知识产权。

SCCHM specialized in R&D, manufacturing, and sale of new material, such as Heat-shrinkable Material for Anti-corrosion of Pipelines, Heat-shrinkable Wraparound Sleeve for Connecting of Telecommunication Cables, and Connection Accessories for Fiber Cables. We hold a group of specialists and experts, who engaged the earliest in R&D of heat-shrinkable products and. We strongly specialized in development of technics and innovation of products.

长园长通拥有完整的连续成型、连续辐照、连续扩张（单向或双向）、连续复合生产线。一流的生产设备和先进的测试仪器及装备，保证了生产过程控制严格，产品检验技术完备。

长园长通产品已广泛地用于石油、化工、燃气和市政工程等领域，具有良好的运行经验，已完成了城市燃气、天然气、油田管线等防腐工程 5000 公里。部分产品远销东南亚、中东以及欧美等国家和地区。 商标已成为国内热缩行业的著名品牌。

SCCHM scrupulously abide by the concept of sale honestly. SCCHM achieves the customers' support and reliance on its high quality products and perfect after service. The products are widely used in the field of Oil, Chemical Industry, Gas, Electric Power, Electrommunication, Shipbuilding, War Industry, and City Planning Project, etc. The products have been widely used in domestic markets and some Southeast, Middle East and Europe markets. The brand — — has become famous in domestic heat-shrinkable material industry.

长园长通全面实施 ISO9001 质量保证体系和 ISO14001 环境体系，并取得了 ISO9001:2000 版国际质量体系认证，管道产品均通过权威检测并获得中石油、中石化的入网证。产品质量持续稳定地符合各类行业及国际标准。

Modern system for enterprise management has been established in SCCHM. SCCHM has been assessed and registered as meeting the requirements of ISO 9001 and ISO14001. The products made by SCCHM have passed the tests operated by the Comprehensive Laboratory of Scientific & Technical Pipeline Company of China and Anti-corrosion and Thermal Insulation Product Quality Supervision Testing Center of China National Petroleum Corporation.The properties of products are satisfied the standard of the Oil & Natural Gas Industry and International Standard,such as DIN30672 、EN12068 or NACE.

长园长通开发生产的管道防腐用热缩制品是由辐射交联聚乙烯基材和特种热熔密封胶复合而成，具有“形态记忆”功能。加热之后，运用收缩的力量使熔融的热熔胶粘剂均匀地挤入焊口形成完美的密封表面，紧密收缩包覆在管道接口或防腐构件处。即使有凹陷的表面或管道包覆其它的防护材料亦能紧密粘合。该产品具有良好的防水汽渗透性、耐化学腐蚀性和耐老化性，是理想的绝缘防腐材料。

The heat-shrinkable sleeves, which are developed and manufactured by Shenzhen Changyuan Changtong Heat-shrinkable Material Co., Ltd (SCCHM) for anti-corrosion of pipeline, are the composition of radiation cross-linked polyethylene backing and high shearing strength melt adhesive, and have the function of Shape Memory. The hot melt adhesive is squeezed into the joint by the shrink power to form a perfectly sealed surface, after being heated. Then the sleeve will wrap closely on the joint of the pipeline or antisepticised components. The products are ideal material for corrosion prevention and insulation, and they perform well at water-proof, anti chemic corrosion, and anti-aging.

产品适用于 Suitable for:

- 挤压聚乙烯三层结构（3-PE）或二层结构（2-PE）防腐层、熔结环氧粉末（FBE）、煤焦油瓷漆防腐层和各种保温管线补口、补伤

  Three layers polyethylene (3-PE) , two layers polyethylene (2-PE), Three layers polypropylene(3-PP),

fusion bonded epoxy (FBE), coal tar enamel(CTE),insulated jacket

- PE、PP-R 及 PVC 等塑料给排水管线的补口、补伤

  Joint coating and repairing of service pipe or drainpipe of PE, PP-R, and PVC

- 弯头、弯管、三通和绝缘法兰等异型管件防腐

  Anti-corrosion of profiled fittings, such as elbows, siphons, tees, and insulation flanges

长园长通产品经中国石油天然气集团公司防腐保温产品质量监督检验中心和中国石油管道公司管道科技研究中心综合试验室检测，分别满足石油天然气行业标准 SY/T0413 -2002 和 SY/T0415 -96 的要求。

The products made by SCCHM have passed the tests operated by The Comprehensive Laboratory of Scientific & Technical Center of PetroChina Pipeline Company and Anti-corrosion and Thermal Insulation Product Quality Supervision Testing Center of China National Petroleum Corporation. All the tests' results are satisfied with standard of the Oil & Natural Gas Industry, SY/T0413–2002 and SY/T0415–96.

长园长通的主要产品 Main products:

- FRDP 固定片式热收缩带

  Heat-Shrinkable Wrap-around Sleeve with Closure Patch(FRDP)

- FRDK 定向穿越用玻璃纤维增强热缩带

  Heat-Shrinkable Fiberglass Reinforced Wrap-around Sleeve with Closure Patch (FRDK)

- FRY 圆管式热收缩套 Heat-Shrinkable Tubular Sleeve (FRY)
- FRDS 热收缩缠绕带 Heat-Shrinkable Wraparound Tape (FRDS)
- 专用无溶剂环氧涂料（底漆）Two-componentsl Non-Solvent Epoxy Primer
- FRDX 补伤片 PE-coating Repair Patch (FRDX)
- FRWT 防水帽 Water-proof Cap(FRWT)
- 补伤胶棒 Repair Adehesive



热收缩套系列产品型号及标记 Type and Symbol of the Heat-Shrinkable Sleeve

F R □ □ Φ□ × □-A/B

- 胶层厚度（毫米）Thickness of the adhesive (mm)
- 基材厚度（毫米）Thickness of the backing (mm)
- 热收缩带宽度（毫米）Width of the sleeve (mm)
- 管道外径（毫米）Out dia. of the pipeline(mm)
- 结构特征代号：P 为固定片式；K 为加强型 ；
  Structure symbol :P denotes Closure Patch; K denotes reinforced
- 派生代号：D 为带材；
  Derived symbol: D denotes Tape,
- 热收缩 Heat-Shrinkable
- 辐射交联 Radiation Cross-Linked

例：FRDP Φ273×500-1.2/0.8

名称：FRDP 固定片式管道防腐用热缩带
适用管道外径：273mm
热收缩套宽度：500mm
基材厚度：1.2mm
胶层厚度：0.8mm

Example：FRDP Φ273×500-1.2/0.8

Name: FRDP Heat-Shrinkable Wraparound Sleeve with Closure Patch for Corrosion Protection and Thermal Insulation of The Pipelines Suitable out dia. of the pipeline: 273mm

Width of the sleeve: 500mm

Thickness of the backing: 1.2mm

Thickness of the adhesive: 0.8mm

热收缩带系列产品型号及标记 Type and Symbol of Heat-Shrinkable Tape

F R □ □ □ × □-A/B

- 胶层厚度（毫米）Thickness of the adhesive (mm)
- 基材厚度（毫米）Thickness of the backing (mm)
- 热收缩带宽度（毫米）Width of the tape (mm)
- 热收缩带长度（米）Length of the tape(m)
- 结构特征代号：S 为缠绕带；X 为补伤片
  Structure symbol: S denotes Tape, X denotes Patch.
- 派生代号：D 为带材
  Derived symbol: D denotes Tape,
- 热收缩 Heat-Shrinkable
- 辐射交联 Radiation Cross-Linked

例：FRDS 15×100-1.2/0.8

名称：FRDS 钢管防腐热缩缠绕带
热收缩带长度：15m
热收缩带宽度：100mm
基材厚度：1.2mm
胶层厚度：0.8mm

Example：FRDS 15×100-1.2/0.8

Name: FRDS Heat-Shrinkable Tape for Corrosion Protection and Thermal Insulation of The Pipelines
Length of the heat-shrinkable tape: 15m
Width of the heat-shrinkable tape: 100mm
Thickness of the backing: 1.2mm
Thickness of the adhesive: 0.8mm

产品性能指标（Products' Properties）

序号 No.	项　　目 Item	技术要求 Standard	试验方法 Test Method
A	**基材 (Backing)**		
1	拉伸强度 (Tensile Strength)	≥17MPa	GB/T 1040 ASTM D638
2	断裂伸长率(Elongation)（23℃）	≥400%	GB/T 1040 ASTM D638
3	维卡软化点(Vicat Softening Point)	≥90℃	GB/T 1633 ASTM D1525
4	脆化温度(Brittleness Temperature)	≤-65℃	GB/T 5470 ASTM D2671C
5	介电强度(Dielectric Strength)	≥25MV/m	GB/T 1408 ASTM D257
6	体积电阻率(Volume Resistivity)（23℃）	≥1×10^{13} Ω •m	GB/T 1410 ASTM D149
7	耐环境应力开裂(Environmental Stress Crack)（F_{50}）	≥1000h	GB/T 1842
8	耐化学介质腐蚀（浸泡 7d） Chemical Resistance(immerge for 7 days) 10%HCl 10%NaOH 10%NaCl	≥85% ≥85% ≥85%	GB/T 1040 ASTM D638
9	耐热老化（150℃,168h） Thermal Aging（150℃,168h） 拉伸强度(Tensile Strength) 断裂伸长率(Elongation)	≥14MPa ≥300%	GB/T 1040 ASTM D638
B	**热熔胶(Adhesive)**		
10	环球软化点(Softening Point(Ring ＆ Ball))	≥90℃	GB/T 4507 ASTM E28
11	剪切强度（Lap Shear）	≥1.0MPa	SY/T 0041 ASTM D1002
12	脆化温度（Brittleness Temperature）	≤-15℃	ASTM D2671C
13	剥离强度 Peel Strength (Cohesion Destruction) 热缩套/钢 Heat-Shrinkable Sleeve /Steel 热缩套/底漆 Heat-Shrinkable Sleeve /Primer 热缩套/聚乙烯层 Heat-Shrinkable Sleeve /Polyethylene layer	≥70N/cm ≥70N/cm ≥70N/cm	GB/T 2792 ASTM D1000
C　无溶剂环氧涂料 Non-Solvent Epoxy Primer			
14	Shear of Cured Primer	≥5 MPa	SY/T0041
15	Cathodic Disbonding(65℃,48h)	≤10mm	SY/T0413 Appendix B
注：耐化学介质腐蚀指标为试验后的拉伸强度和断裂伸长率的保持率。 Annotation: Chemical Resistance includes tensile strength and maintenance rate of elongation at break.			

FRDP 固定片式防腐保温热收缩带

Heat-Shrinkable Wraparound Sleeve with Closure Patch (FRDP)





特点(Features and Benefits)

- FRDP is a wraparound sleeve with a closure patch.The shrinkable ratio is ≥15%. It is mainly applied to pipe joint corrosion protection and the prosthesis of wide range damage.
- 主要用于埋地钢质管道现场焊接补口和保温管线现场补口；
- Mainly used in coating the weld joint of buried steel pipeline and insulated pipeline.
- 与钢管表面、环氧涂料及 PE 等表面形成良好的粘接，与管外表面形成连续紧密的防腐体系；
- Adhere closely to the surface of steel pipeline, PE- Coating ,CTE-Coating and FBE-Coating on steel pipeline, and form a continuous close anti-corrosion system with the surface of the pipeline.
- 环境适应能力强，可以抗机械损伤，对流体净水压力有很好的抵抗力，同时对细菌、霉菌和化学腐蚀等具有很强的抵抗能力。
- Easily adapts itself to the environment. Good resistance upon mechanical damage. Good resistance to the liquid pressure. Strong resistance to bacterium, mildew and other chemical corrosion

FRDP 固定片式热收缩带常用规格参考表

单位：mm

序号	产品规格 Size	热缩带周向长度 Length of Sleeve	固定片尺寸 Size of Patch	
			长 Length	宽 Wide
1	FRDPΦ168×500—1.2/0.8	700	等于热缩带轴向宽度 Equal to the wide of sleeve	100
2	FRDPΦ219×500—1.2/0.8	900		120
3	FRDPΦ273×500—1.2/0.8	1070		120
4	FRDPΦ325×500—1.2/0.8	1260		120
5	FRDPΦ355×500—1.2/0.8	1360		120
6	FRDPΦ426×500—1.5/1.0	1600		120
7	FRDPΦ508×500—1.5/1.0	1860		150
8	FRDPΦ529×500—1.5/1.0	1920		150
9	FRDPΦ610×500—1.5/1.0	2220		150
10	FRDPΦ711×500—1.5/1.0	2560		150
11	FRDPΦ813×500—1.5/1.0	2880		150
12	FRDPΦ1220×500—1.5/1.0	4180		150

注：可以根据客户要求，生产相应规格产品.

Annotation: The above data is normal size.Produce certain size of products according to the customers' demand.

長園新材 Changyuan

FRDK 定向钻穿越专用热收缩套（带）

Heat-Shrinkable Fiberglass Reinforced Wrap-around Sleeve with Closure Patch (FRDK) for directional drilling





FRDK 型热缩带是深圳市长园长通热缩材料有限公司为定向钻穿越而开发的玻纤增强型热缩带，其产品结构和美国“Raychem”公司“DIRAX”型产品结构相同。

结构描述 Construction：FRDK 型穿越用热缩带为“三层结构+牺牲保护带” Three-layer system。

- 第一层：双组份无溶剂液体环氧涂料；
  First-layer： Two-componentsl Non-Solvent Lqiud Epoxy Primer
- 第二层：热熔胶；
  Second-layer(adhesive): High shear strength hot-melt adhesive
- 第三层：中间为玻纤增强、里外两层为辐射交联聚乙烯的基材；
  Third-layer(backing):Thick,fiberglass reinforced radiation cross-linked polyethylene
- 牺牲带：结构与 FRDK 型穿越用热缩带一样（外层为玻纤增强型辐射交联聚乙烯基材，内层为热熔胶 ）
  Additional component: Wear cone as extra protection against pull-through forces,of the same construction as the main sleeve

产品特性：

- 第一层的双组份无溶剂液体环氧涂料对钢管有优异的粘接性，在钢管表面形成良好的防腐保护层；
- 第二层的热熔胶对第一层环氧涂料、第三层玻纤增强型辐射交联聚乙烯以及钢管原防腐层均有非常好的粘接性，使三者形成一个紧密的整体，能有效的防止雨水和空气渗入；
- 第三层的玻纤增强型辐射交联聚乙烯具有高抗冲击强度和耐磨擦性，能有效的里层保护防腐层不被破坏；
- 两端牺牲保护带与钢管原防腐层和补口处热缩带各搭接 75mm 以上，能有效的防止穿越过程中土壤中砂石、泥沙对补口处热缩带的破坏（主要是防止穿越过程中补口热缩带翘起）；
- A high performance fiberglass reinforced sleeve specifically desigened for girth weld corrosion protection on pipes used in directional drilling applications.
- Designed to protect girth welds against corrosion and is the optimum joint protection for PE and FBE coated pipes used in directional drilling applications
- The reinforcement gives the backing greater wear resistance.
- During installation ,the radiation cross-linked outer layer forms a tough against mechanical damage and moisture transmission.A wear cone is then applied over the leading edge of the sleeve.

FRDK 常用规格参考表

Selection

单位：mm

No.	尺寸 Size	热缩带长度 Length of Sleeve	固定片宽度 Width of closure patch	牺牲带宽度 Width of wear cone
1	FRDKΦ159×500—1.5/1.0	680	100	≥150
2	FRDKΦ219×500—1.5/1.0	900	120	≥150
3	FRDKΦ273×500—1.5/1.0	1070	120	≥150
4	FRDKΦ325×500—1.5/1.0	1260	120	≥150
5	FRDKΦ355×500—1.5/1.0	1360	120	≥150
6	FRDKΦ406×500—1.5/1.0	1520	150	≥200
7	FRDKΦ426×500—1.5/1.0	1600	150	≥200
8	FRDKΦ508×500—1.5/1.0	1900	150	≥200
9	FRDKΦ529×500—1.5/1.0	1940	150	≥200
10	FRDKΦ610×500—1.5/1.0	2220	150	≥200
11	FRDKΦ711×500—1.5/1.0	2560	150	≥200
12	FRDKΦ813×500—1.5/1.0	2880	150	≥250

Annotation: 1.The above data is normal size.

2.Produce certain size of products according to the customers' demand.

FRWT 防水帽

Water-proof Cap(FRWT)

特点



- 专为防腐保温管道保温层的防水而设计，适用于保温层端头防水防护。
- 操作快捷，收缩速度快，防水密封性能好。
- 耐化学腐蚀、耐水浸泡、耐水汽渗透等性能好，使用寿命长。
- Water-proof Cap(FRWT) are sued to protect the insulating foam between the pipe and the outer jacket in insulated pipe sections. Water-proof Cap should be sued on both pipe ends..
- Installation fast and easy. Perform well at water proof and sealing.

FRWT 系列热缩防水帽常用规格

注：可以根据客户要求，生产相应规格产品。

Annotation: Produce certain size of products according to the customers' demand.

FRY 圆管式管道防腐热缩套

Heat-Shrinkable Tubular Sleeve (FRY)



特点

- 主要用于埋地及架空钢管现场焊接补口防腐和保温补口，也可用于管道法兰连接、绝缘法兰及卡(锁)箍部位的密封防腐；
- 补口套为整体结构，具有强收缩力，抗蠕变、耐老化、耐冲击、耐热等性能优良；
- 热熔胶剪切强度和剥离强度高，对钢管、环氧及 PE 涂层粘着力强，密封性好；
- 耐化学腐蚀、耐水浸泡、耐水汽渗透等性能好，使用寿命与管道同龄；
- Mainly applied to pipe joint corrosion protection, reducer, and seal of valve. Its circle shrinkable ratio is ≥ 50%. A high-performance heat sensitive adhesive effectively bonds to steel substrates and common pipeline coatings including polyethylene, polypropylene, fusion bonded epoxy and coal tar enamel to form a reliable seal protection.
- The sleeves have strong shrink power, for their unitary structure. It has excellent properties of soil stress creep resistance.
- Long term corrosion protection.

FRY 系列热缩套常用规格参考表

单位：mm

产品规格 Size	适用管径 Suitable Dia. of pipeline	产品规格 Size	适用管径 Suitable Dia. of pipeline
FRYΦ159×500—1.2/0.8	Φ159	FRYΦ630×500—1.5/0.8	Φ630
FRYΦ219×500—1.2/0.8	Φ219	FRYΦ720×500—1.5/0.8	Φ720
FRYΦ273×500—1.2/0.8	Φ273	FRYΦ813×500—1.5/0.8	Φ813
FRYΦ325×500—1.2/0.8	Φ325	FRYΦ920×500—1.5/0.8	Φ920
FRYΦ377×500—1.2/0.8	Φ377	FRYΦ1016×500—1.5/0.8	Φ1016
FRYΦ426×500—1.5/0.8	Φ426	FRYΦ1220×500—1.5/0.8	Φ1220
FRYΦ529×500—1.5/0.8	Φ529	FRYΦ1350×500—1.5/0.8	Φ1350

注：可以根据客户要求，生产相应规格产品。

Annotation: 1. The above data is normal size.

2.Produce certain size of products according to the customers' demand.

FRY 圆管式穿墙管道防腐热缩套



特点

- 主要用于城市燃气管线钢管焊口和钢管穿墙进户部位的保护密封防腐；
- 热缩套为整体结构，具有强收缩力，抗蠕变、耐老化、耐冲击、耐热等性能优良；
- 热熔胶剪切强度和剥离强度高，对钢管、环氧及 PE 涂层粘着力强，密封性好；
- 耐化学腐蚀、耐水浸泡、耐水汽渗透等性能好，使用寿命与管道同龄；
- Mainly applied to pipe joint corrosion protection, reducer, and seal of valve. Its circle shrinkable ratio is ≥ 50%. A high-performance heat sensitive adhesive effectively bonds to steel substrates enamel to form a reliable seal protection.
- The sleeves have strong shrink power, for their unitary structure. It has excellent properties of soil stress creep resistance.
- Long term corrosion protection.

FRY 系列热缩套常用规格参考表

单位：mm

产品规格 Size	适用管径 Suitable Dia. of pipeline	产品规格 Size	适用管径 Suitable Dia. of pipeline
FRYΦ30×250	DN15（Φ22）	FRYΦ80×350	DN50（Φ57）
FRYΦ30×300	DN15（Φ22）	FRYΦ80×450	DN50（Φ57）
FRYΦ30×350	DN15（Φ22）	FRYΦ120×350	DN65（Φ76）
FRYΦ30×450	DN15（Φ22）	FRYΦ120×450	DN65（Φ76）
FRYΦ50×350	DN25（Φ34）	FRYΦ120×500	DN65（Φ76）
FRYΦ50×450	DN25（Φ34）	FRYΦ120×350	DN80（Φ89）
FRYΦ60×350	DN32（Φ42）	FRYΦ120×450	DN80（Φ89）
FRYΦ60×350	DN40（Φ48）	FRYΦ120×500	DN80（Φ89）
FRYΦ60×450	DN40（Φ48）	FRYΦ160×500	DN100（Φ108、114）

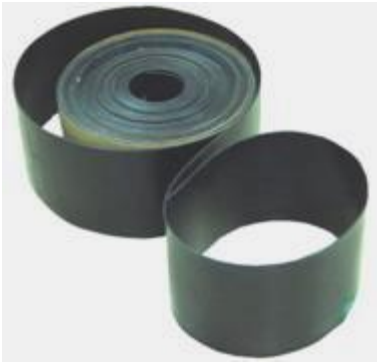
注：可以根据客户要求，生产相应规格产品。

Annotation: 1. The above data is normal size.

2.Produce certain size of products according to the customers' demand.

FRDS 钢管防腐热缩缠绕带

Heat-Shrinkable Wraparound Tape (FRDS)



特点(Features and Benefits)

- Ø 主要用于弯头、弯管、三通和绝缘法兰等异型管件防腐和管道层破损修复，也可用于整个管线的防腐处理；
- Ø 安装方便，操作简单，使用性能可靠；
- Ø 抗机械损伤能力强，耐净水压力高，粘接密封性能优异；
- Ø 具有优良的耐细（霉）菌、耐化学腐蚀等
- Ø Mainly used in corrosion prevention and repairing the damaged parts of profiled fittings, such as elbows, ,tees, and insulation flanges. Can also used in corrosion prevention of the whole pipeline.
- Ø Convenient installation, easy operation, and reliable usage properties.
- Ø Good resistance upon mechanical damage and liquid pressure. Excellent sealing property.
- Ø Strong resistance to liquid pressure, bacterium, mildew and electrochemistry corrosion.





FRDS 热缩缠绕带常用规格参考表

序号	产品规格 Size	长度（m）Length (m)		
		A	B	C
1	FRDS □×100-1.2/0.8	10	15	20
2	FRDS □×150-1.2/0.8	10	15	20
3	FRDS □×200-1.2/0.8	10	15	20
4	FRDS □×250-1.2/0.8	10	15	20

注： 1. □代表 A、B、C 三种型号。

2. 本表所列为常用规格，也可按客户要求生产。

Annotation: 1. □ represents A, B and C.

2. The size shows in the table is in common use. We can produce certain size of products according to the customers' demand.

FRDX 管道防腐用补伤片、热熔胶棒
PE-coating Repair Patch (FRDX) and Adehesive





特点(Features and Benefits)

- 专门用于挤压聚乙烯防腐涂层的划伤、碰伤、气泡、剥离强度测定时的切口等损伤的补伤修复；与管线外 PE 防腐涂层的粘接强度高，形成连续紧密的防腐体系；
- 抗冲击、耐磨损、耐化学腐蚀、耐水汽渗透等性能好，环境适应能力强。
- Specially used in repairing the damaged PE-coating and PP-coating on steel pipeline, such as scratch, touch damage, air bubble, and cut of the peel strength test.Adhere closely to the surface of PE-coating and PP-coating on steel pipeline, and form a continuous close corrosion prevention system with the surface of the pipe.
- Anti-impact, wearability, chemical corrosion protection, water vapor penetration prevention. Easily adapt itself to the environment.

规格型号（单位：mm）

规格 Product	规格 Product
FRDX 200×200—1.2/0.8	FRDX 250×250—1.2/0.8
FRDX 200×250—1.2/0.8	FRDX 300×300—1.2/0.8

注：补伤修复片的规格根据客户要求供货，也可成卷供货。

Annotation: 1. The above data is normal size.

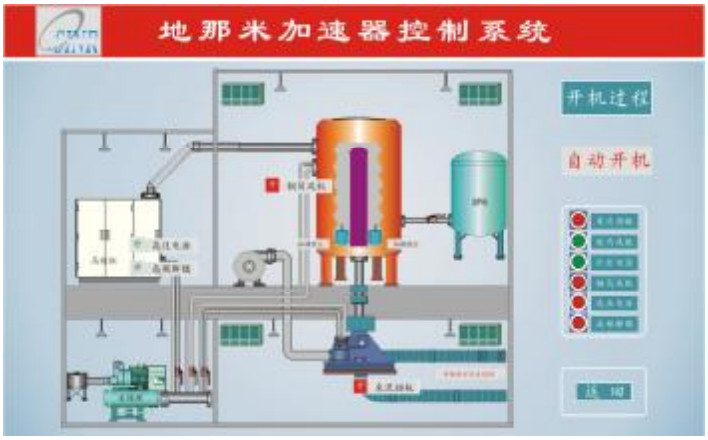
2.The width and length of PE-coating repair patch can adjust according to the customers' demand, so the PE-coating repair patch supply in a role.

FRDX 补伤修复片性能指标

序号 No.	项　　目 Item		单位 Unit	典型值 Typical Value	试验方法 Test Method
1	变　化　率 Variation Rate	轴向 Axial 周向 Circular	%	≤5	200℃、5min
2	软化点 Softening Point(Ring & Ball)		℃	113	SY/T 0041-97
3	剪切强度　Lap Shear		MPa	2.3	GB/T 4507-99
4	剥离强度（对钢） Peel Strength (PE/PE)		N/cm	106	GB/T 2792-98






地那米加速器控制系统
开机过程
自动开机






SGS
Shenzhen Changyuan New Material Co., Ltd.
ISO 9001:2000


SGS
Shenzhen Changyuan New Material Co., Ltd.
ISO 9001:2000


SGS
ISO 14001:2004

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