



Tape & Grounding materials Products



About Us.

Company Introduction

Liaoning Shenpeng Electric Power Technology Co., Ltd. was established in April 2014, located at No. 73, East Shensi Road, Fushun Demonstration Zone, Liaoning Province. It covers an area of 27,000 square meters, with over 60 sets of production and testing equipment. The medium - voltage magnifying station covers an area of 500 square meters, equipped with the AC withstand voltage test detection ability for 330kV cable accessory products. The class 100,000 clean workshop covers an area of 3,000 square meters, ensuring the stability of product quality from the source. The company has 50 employees, among which 10 have senior and intermediate professional titles.

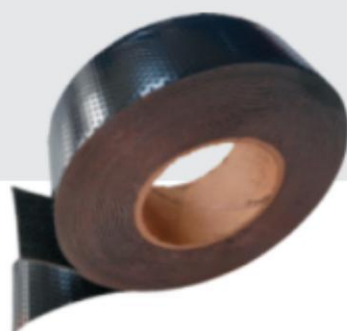
The company focuses on the R & D, manufacturing and sales of core products in the field of electric power technology. Its main products cover indoor terminals (GIS terminals), outdoor terminals (porcelain sleeve, composite sleeve terminals), intermediate joints (straight joints, insulating joints), as well as 66KV - 110KV dry - type terminals, dry - type Y - joints, and 10KV - 35KV indoor terminals, outdoor terminals, intermediate joints, elbow joints, cable protection pipes, and various insulating sealing protection grounding strips, composite insulation busbars and other series of electric power equipment components.

Liaoning Shenpeng Electric Power Technology Co., Ltd. will continue to rely on its strong innovation ability and industrial resource integration advantages, deeply focus on the R & D and application promotion of advanced technologies in the electric power technology field, and spare no effort to contribute to the technological progress and high - quality development of the electric power industry, striving to achieve the grand goal of building an international first - class electric power technology enterprise.

Electrical Stress Control Tape

■ Specification Model

DYL-50



■ Product Dimensions

0.6*25*5000 (T×W)

Other dimensions can be customized as required.

■ Product Application

Used for stress control at cable joints and terminals, which can evenly distribute the electric field and reduce partial discharge. It is mainly used for bus - bar tubes and wrapped - type cable accessories (the wrapped - type is mainly for the overseas market). It is also applied in 110kV/220kV intermediate joints in China.

■ Product Advantages

- **Electric Field Optimization:** The high dielectric constant characteristic makes the electric field more uniform.
- **Good Flexibility:** It can be used in a wide temperature range from - 40°C to 90°C, ensuring the stability of stress control effects.
- **Strong Durability:** Less likely to experience performance degradation, cracking, or deformation.
- **Good Compatibility:** It will not chemically react with or corrode the cable body.

Property	Unit	Specifications
Thickness	mm	0.75
Tensile Strength	MPa	≥ 1.5
Elongation at Break	%	≥ 250
Volume Resistivity (20℃)	Ω ·cm	E9-E15
Dielectric Constant		≥ 5

Insulating and Waterproof Composite Tape



■ Specification Model

FHD-50

■ Product Dimensions

1.8*50*3000 (T×W×L)

1.8*50*1000 (T×W×L)

Other dimensions can be customized as required.

■ Product Application

Used for electrical insulation and waterproof sealing protection at the joints of power cable accessories, communication equipment stations, feeders, antennas, etc. It has good waterproof, insulating and mechanical properties, and is non-corrosive to various cable sheathing materials such as copper, aluminum, etc., with good adhesion.

■ Product Advantages

- **Excellent Insulation Performance:** Volume resistivity $\geq 1 \times 10^{14} \Omega \cdot \text{cm}$, electric - shock breakdown strength $\geq 15 \text{ kV/mm}$, providing reliable insulation protection for electrical equipment and circuits.
- **Good Waterproof Sealing:** Effectively blocks the penetration of water and water vapor, preventing electrical failures and equipment corrosion caused by water intrusion.
- **Chemical Corrosion Resistance:** Resistant to the erosion of acids, alkalis and other chemical substances, prolonging the service life.
- **Aging Resistance:** Has good resistance to ultraviolet aging and ozone, and is not prone to aging, cracking or hardening after long-term outdoor use.
- **Wide Temperature Adaptability:** The working temperature range is $-40^{\circ}\text{C} - 90^{\circ}\text{C}$, ensuring normal performance under different temperature conditions.
- **Good Conformability:** Soft in texture and elastic, easy to stretch and wrap, facilitating construction and improving construction efficiency.
- **Strong Self-Adhesion:** Can firmly adhere to the surface of objects and is not easy to peel off after sticking.

Property	Unit	Specifications
		FHD-50
Thickness	mm	≥ 1.6
Tensile Strength	MPa	≥ 1.0
Elongation at Break	%	≥ 700
Ozone resistance test (40°C , 70h)		No cracking
Volume Resistivity (20°C)	$\Omega \cdot \text{cm}$	$\geq 1.0 \times 10^{14}$
Relative permittivity (50Hz)	-	≤ 3.5
Dielectric strength	kV/mm	≥ 15
Self-Adhesive (RT 24h)	-	No loosening observed
Thermal stress crack resistance (130°C 1h)	-	No cracking
Heat Resistance (130°C 168h)	-	No cracking
Peel strength (tape to steel plate)	N/cm	No peeling observed
Peel strength (tape to PE plate)	N/cm	No peeling observed



Semi-Conductive Self-Adhesive Tape

■ Specification Model

BDD-50 BDD-20



■ Product Dimensions

0.6*40*5000 (T×W×L)

0.6*25*5000 (T×W×L)

0.8*25*1000 (T×W×L)

Other dimensions can be customized as required.

■ Product Application

Mainly used for the production of power cable joints and shielding repair, as well as the insulation treatment of electrical equipment such as transformers and high - voltage switches. It is also used for the shielding and joint protection of coaxial cables in communication cables, which can equalize the electric field, prevent interference and improve insulation performance. With its self - adhesive structure, it can closely fit irregular surfaces without the need for tools during construction, and is widely used in the power and communication fields.

■ Product Advantages

- **Semi - conductive Property:** Releases charge and equalizes the electric field, effectively avoiding electric field concentration, reducing partial discharge, and improving the stability and safety of electrical equipment operation.
- **Static Electricity Release:** Quickly releases accumulated static electricity, protecting electronic components and equipment from damage caused by static electricity.
- **Strong Self - Adhesion:** Can firmly adhere to the surface of objects, making construction convenient and fast, and maintaining good adhesion under different environmental temperatures.
- **Good Flexibility:** Soft in texture, can be bent and twisted, and can closely fit objects of various shapes and sizes.
- **High Mechanical Strength:** Has a certain tensile strength and tear resistance, not easy to be broken or torn, prolonging the service life.

Property	Unit	Specifications	
		BDD-20	BDD-50
Thickness	mm	0.8±0.15	0.60 ~ 0.80
Tensile Strength	MPa	≥ 1.3	≥ 1.3
Elongation at Break	%	≥ 500	≥ 500
Volume Resistivity (20℃)	Ω .cm	≤ 1000	≤ 1000
Self-Adhesive (RT 24h)	-	No loosening observed	No loosening observed
Thermal stress crackresistance(130℃ 1h)	-	No cracking	No cracking
Heat Resistance (130℃ 168h)	-	No cracking	No cracking

Insulating Self - Adhesive Tape

■ Specification Model

J20 J30 J50



■ Product Dimensions

0.6*40*5000 (T×W×L)

0.6*25*5000 (T×W×L)

0.8*25*1000 (T×W×L)

Other dimensions can be customized as required.

■ Product Application

Used for the insulation wrapping of cable joints, terminals, and busbars, etc., with excellent electrical insulation properties, mechanical properties and self - adhesion.

■ Product Advantages

- **Strong Insulation:** High resistivity, effectively blocking the passage of current, and can withstand high voltage without being punctured.
- **Resistant to Electric Shock and Arc:** Can effectively resist electric shock and arc generation, suitable for high - voltage and high - electric - field - strength environments.
- **Self - Adhesive and Flexible:** Can firmly adhere to the surface of objects, and the viscosity can be adjusted according to construction needs. It is soft, can be bent and twisted, and can closely fit objects of various shapes and sizes.
- **High Tensile Strength:** Not easy to be broken or torn during use, ensuring that it will not be damaged by external forces during long - term use.
- **Corrosion Resistance:** Resistant to the erosion of acids, alkalis and other chemical substances, protecting the covered objects from chemical corrosion.
- **Aging Resistance:** Has good durability and anti - aging performance, not easy to age, crack or deform, and can continuously and stably perform its functions.

Property	Unit	Specifications		
		J20	J30	J50
Thickness	mm	0.8±0.15	0.60 ~ 0.80	
Tensile Strength	MPa	≥ 1.0	≥ 1.7	
Elongation at Break	%	≥ 500	≥ 500	
Impulse Breakdown Strength	kV/mn	≥ 25	≥ 28	
Volume Resistivity (20℃)	Ω .cm	≥ 1.0*10 ¹⁴	≥ 1.0*10 ¹⁴	
Dielectric Constant (50Hz)	-	≤ 5.0	≤ 5.0	
Dielectric Loss (50Hz)	-	≤ 0.05	≤ 0.05	
Self-Adhesive (RT 24h)	-	No delamination	No delamination	
Thermal stress crack resistance(130℃ 1h)	-	No cracking	No cracking	
Heat Resistance (130℃ 168h)	-	No cracking	No cracking	

Tin-Plated Copper Braid Wire

■ Specification Model

TZX-15 (6/10/16/25/35)

TZX-20 (6/10/16/25/35)

Other dimensions can be customized as required.



■ Execution Standard

JB/T 6313—2011

■ Product Application

Used for grounding of cable accessory products, and for connection and grounding of internal components of transformers and switchgear. It has good electrical conductivity and oxidation - resistance ability.

■ Product Advantages

- **High Conductivity:** High - purity copper is used as the base material.
- **Good Flexibility:** Soft in texture and has good bending performance.
- **Anti - oxidation:** The tin - plating layer on the surface can effectively isolate air and water, preventing the copper from reacting with oxygen.
- **Corrosion Resistance:** The tin layer has certain corrosion resistance and can resist the erosion of acids, alkalis and other chemical substances.
- **Fine Braiding Process:** The braiding is tight, uniform, smooth, neat, and free of burrs.



LIAONING SHENPENG ELECTRIC POWER TECHNOLOGY CO., LTD.

Unit Address: 73 Shendong 4th Road, Shenfu Demonstration
Zone, Liaoning Province, China

Phone Number: +86 188 4259 4777

Email: rygroupzm@rygroupdb.com