

RETEKOOOL

JINAN RETEKOOOL INC.

Designed for energy saving and health

Do every product with good intentions and
treat every customer sincerely!

RETEKOOOL

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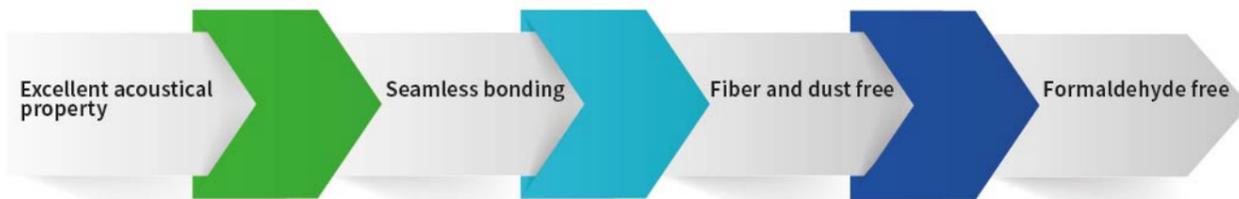
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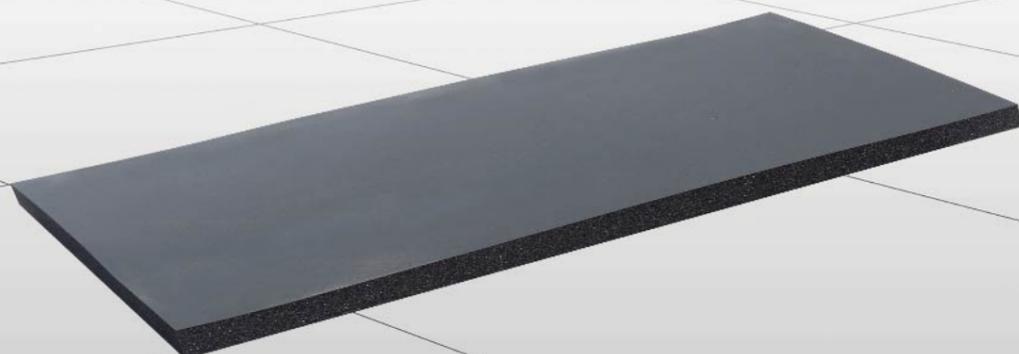
Rubber insulation materials Sheet

Product description

RETEKOOL insulation board is widely used in central air-conditioning system pipes and equipment, domestic hot water pipes and equipment, industrial low-temperature pipes and equipment, and refrigeration and refrigeration systems. It is especially suitable for clean, high fire-proof electronics, food, Chemical plant and important public buildings.



Application field

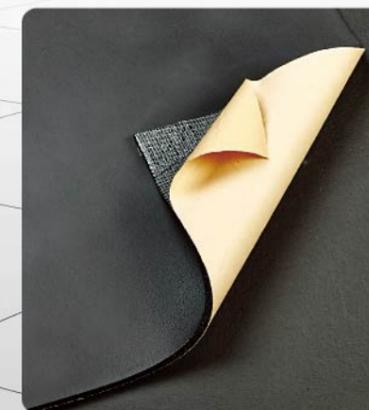


Performance characteristics

RETEKOOL insulation sheet board has more excellent fire resistance, the product oxygen index has been significantly improved ($\geq 32.5\%$) It has passed the test requirements of BS 476 part7: 1997 in Britain. It shows that the product has excellent flame retardant ability and passed the test requirements of BS 476 part6: 1989. It shows that the product has achieved ideal control in heat release during combustion. At the same time, it has also obtained FM certification in the United States And show consumers that products and services pass the highest standards of testing in the United States and are completely dependable on product performance, especially fire safety performance.

The main performance of insulation materials is to prevent the condensation, reduce the energy lost in the period of system life cycling. Thus the most key factors are conductivity and moisture resistance Insulation board has low thermal conductivity $\lambda \leq 0.034w/(m.k)$ at 0 °C and high moisture factor 12000, being the most reasonable chose of preventing condensation and lower energy lost.

Rubber insulation materials Adhesive sheet



Rubber insulation materials Pipe/Sheet

Technical Parameters

Item	Unit	Performance index	Implemented standard
Surface density	kg/m ³	≤80	GB/T6343
Burning performance	—	Meet requirement	GB/T2406 GB/T8627
		B级 Grade B	GB8624
		Meet requirement	B1
Smoke toxicity	—	ZA _s	GB/T20285
Thermal conductivity	-20° 0° 40°	w/(m.k)	≤0.031
			≤0.034
			≤0.037
Water vapor permeability	Water vapor permeability Moisture resistance	g/ (m.s. Pa)	≤1.96 × 10 ⁻¹¹
			≥ 10000
Water absorption in vacuum	%	≤8	GB/T17794
Dimension stability(105°C±3°C,7d)	%	≤ 10	GB/T8811
Reboundrate after compression compression rate 50%.72h	%	≥ 70	GB/T16669
Aging resistance	—	Slightly crumpling, no cracks, no pin holes, not deforming	GB/16259
Temperature range	°C	-40~105	GB/T17794

Insulation sheet conventional packing parameters

Appearance	Thickness (mm)	Width*length(cm)
Insulation sheet	6	100*3000
	10	100*2000
		120*2000
	13 15 20 25	100*1000
		120*1000
	32	100*800
120*800		

Conventional packing parameters of insulation pipe

ID	T=6mm 1/4"	T=9mm 3/8"	T=13mm 1/2"	T=20mm 3/4"	T=25mm 1"
	PC/CTN	PC/CTN	PC/CTN	PC/CTN	PC/CTN
1/4"(6mm)	250	168	100	48	30
3/8"(10mm)	200	120	90	36	30
1/2"(13mm)	168	100	72	30	24
5/8"(16mm)	133	90	63	30	20
3/4"(19mm)	113	72	56	25	20
7/8"(22mm)	80	65	42	24	18
1"(25mm)	70	49	42	20	16
1-1/8"(28mm)	60	49	36	20	16
1-1/4"(32mm)	55	42	30	20	15
1-3/8"(35mm)	50	36	30	16	12
1-1/2"(38mm)	/	34	30	16	12
1-5/8"(42mm)	/	30	25	16	12
1-7/8"(48mm)	/	28	20	15	10
2"(51mm)	/	24	20	12	9
2-1/8"(54mm)	/	20	18	12	9
2-1/4"(57mm)	/	20	18	12	9
2-3/8"(60mm)	/	20	15	10	9
2-5/8"(67mm)	/	18	13	9	8
2-7/8"(73mm)	/	18	13	9	8
3"(76mm)	/	18	12	8	8
3-1/8"(79mm)	/	15	12	8	6
3-1/2"(89mm)	/	15	12	6	6

Sports equipment sheath series Tear-proof series

Product description

It is not easy to fall off and has no burrs (The product adopts one-piece molding technology without film, not easy to fall, and no burrs).

It is not easy to deform and durable (the rubber content is up to 30%, the closed-cell foaming makes the latitude and longitude force uniform, and the product is more resistant to tearing, abrasion, and deformation).

Waterproof and anticorrosive, strong hand feeling, comfortable (the material has oil-resistant, waterproof, anti-corrosion characteristics, longer service life, strong hand feeling and comfortable).

Suitable for: anti-collision protection of sports equipment, strollers, rehabilitation equipment, various tools, etc.

Application field



Gold diamond series

Product description

Gold diamond series It is a kind of rubber and plastic insulation material which is extruded with flexible polymeric cladding. It can be used in NBR/PVC or EPDM pipe insulation system. The product comes with a polymer cladding material with excellent flexibility, mechanical resistance and weather resistance, making it ideal for outdoor applications.



System application

The application temperature range is -55°C to +150°C, which is consistent with the temperature of Duros pipeline insulation. The polymerized cladding enhances weatherability, moisture flow resistance, and mechanical resistance of insulated pipes, making it ideal for HVAC lines and hoses. The gold diamond series is ideal for heat pumps and solar hot water supply systems with high temperature requirements (expected to reach 150°C).

Outdoor application

The Gold Diamond series provides excellent UV radiation resistance, as well as good weather resistance, with a unique polymer coating with excellent mechanical resistance.

Resistance to moisture flow

Gold diamond series because of the unique product structure, so that it has no "pumping effect", (that is, due to the change of air pressure caused by moisture flow). Thus, it ensures a very high wet resistance factor, so that it has a long-term stable low thermal conductivity, so that the thermal insulation performance throughout the entire life cycle of the equipment, not because of the moisture diffusion in the thermal insulation system and weakened.

Technical Parameters

Performance		NBR/PVC	EPDM	Test method
Density		≤70kg/m ³	≤70kg/m ³	GB6343-95
Thermal conductivity (Average temperature)	-20°C	≤0.033W/(m·k)	≤0.035W/(m·k)	GBT10294
	0°C	≤0.035W/(m·k)	≤0.037W/(m·k)	
	40°C	≤0.040W/(m·k)	≤0.042W/(m·k)	
Moisture permeability	Permeability coefficient	≤2.6x10 ⁻¹¹ g/(m·s·Pa)	≤1.3x10 ⁻¹¹ g/(m·s·Pa)	GB/T17146 DIN52615
	Dampness factor	≥10000	≥4500	
Water absorption in vacuum		≤10%	≤10%	GB/T17794-2008
Dimension stability(105°C±3°C, 7d)		≤10.0%	≤10.0%	GB/T8811
Noise reduction performance		~32dB	~32dB	GB/T4760
Mildew resistance		No mold growth	No mold growth	ASTM G21
Operating temperature range		-40°C ~ +105°C	-40°C ~ +105°C	GB8871
Corrosiveness		PH=7	PH=7	GB/T17393
Anti-aging (150h)		Slight wrinkle, no crack, no deformation	Slight wrinkle, no crack, no deformation	GB/T16259
Anti-uv aging		Pass	Pass	ASTM G153
Compression rebound rate		≥70%	≥70%	GB/T 6669
Tearing strength		9N/cm	9N/cm	GB/T 10808

Self-adhesive insulation tape

Product description

Self-adhesive insulation tape is the introduction of the latest foreign technology and advanced automatic continuous production line and through self-development and improvement, using excellent performance of nitrile rubber, polyvinyl chloride (NBR/PVC) as the main raw materials, with various high-quality auxiliary materials, it is a soft thermal insulation and energy-saving material foamed by a special process.

This product is a closed-cell elastic material with excellent properties such as softness, bending resistance, cold resistance, heat resistance, flame retardancy, water resistance, low thermal conductivity, shock absorption, and sound absorption. It can be widely used in various cold and heat medium pipeline containers in central air conditioning, construction, chemical, pharmaceutical, textile, metallurgy, shipbuilding, vehicles, electrical appliances and other industries and sectors, and can achieve the effect of reducing cold and heat loss.



Technical Parameters

Item	Performance index
Density	70KG/m ³
Burning level	B2
Smoke density(SDR)	≤75
Coefficient of thermal conductivity (average temperature degrees celsius)44*10	W/mk≤0.038
Moisture permeability G/(MsPa)	≤44*10 ⁻¹⁰
Water absorption in vacuum	≤10%
Dimension stability(105±3,7d)%	≤10
Tear strength	≤30N/cm
Aging resistance	Slightly crumpling, no cracks, no pin holes, not deforming*
Temperature tolerance range	-30°C~115°C
Gum and heat-resistant properties	-30°C~75°C
Back adhesive peel strength	10N

Conventional packing parameters

Of the goods	Long(mm)	Width(mm)	Thickness(mm)
Rubber tape with brown paper	10000	50	3
	10000	50	5
	10000	25	3
	10000	25	5
Rubber tape with mesh	10000	50	5
	10000	50	3