Wincell®

「Aircraft Carrier class」high-end thermal insulation system solution provider

W

Electromechanical heating insulation system

Rubber insulation | Glass wool | Ceramic fiber
Composite airduct | U–PVC insucover

Contents

COMPANY PROFILE

Established in 2012, Wincell Insulation Group is china national high-tech enterprise integrating R&D, production, sales and service. Wincell has always been focusing on thermal insulation, emission reduction, noise reduction, etc. "Wincell" products have successively passed more than 100 domestic and international certifications such as EU,CE, US FM, UK BS, GREENGUARD, UL, Korea KS, China CQC and China Classification Society CCS certification, and the company has been awarded with many tiles such as “National Manufacturing and Internet Integrated Development Demonstration Enterprise", "Jiangsu Province Green Factory", "Jiangsu Province Industrial Internet Benchmarking Factory", "Jiangsu Province Two Industry Integration Pilot Leading Enterprise", "Jiangsu Province Science and Technology Little Giant", "Taixing City Top Ten Enterprises”.

Wincell Insulation Group, as an aircraft carrier-level high-end thermal insulation system solution provider, has deployed across the country through self-construction, holding shares, mergers and acquisitions, etc., focusing on five major areas of the thermal insulation industry: heating general thermal insulation systems, large industrial thermal insulation systems, and energy-saving building envelope structures systems, thermal insulation materials for marine ships, and thermal insulation and noise reduction systems for locomotives, forming a full range of product lines in industries such as rubber and plastic, glass wool, aluminum silicate, aerogel, foam glass, air ducts, and rock wool, which has exported to more than 20 countries and regions.

Wincell Insulation Group has always regarded the R&D innovation strategy as the company's first core competitiveness, and has established and improved a technological innovation system with independent innovation as the main body and a combination of production, learning and research. The company has established national-level CMA, CNAS inspection and testing centers, Jiangsu Provincial Enterprise Technology Center, Jiangsu Provincial Industrial Design Center, Taizhou Special Environmental Protection Flame-retardant Rubber and Plastic Thermal Insulation Material Engineering Technology Research Center and other R&D and testing platforms, and is oriented by industry demand. Promote the joint training of R&D and design talents by universities, institutes and enterprises, and jointly create a cooperation model of "school-enterprise cooperation, full-process embedding" with Hefei Institute of Material Science, Chinese Academy of Sciences, Nanjing University of Aeronautics and Astronautics, Jiangsu Institute of Technology, etc., realizing in-depth The echelon construction of docking industrial talents.

Wincell Insulation Group deepens corporate innovation with a digital strategy, integrates into the industrial ecological chain, establishes an open innovation ecosystem, and organically integrates R&D, manufacturing, supply, talent, investment, integration and other capabilities. Taking customers as the goal, taking the market as the guide, and relying on the core resources of the enterprise, it has created a three-dimensional marketing service system with deep integration of online and offline, and implemented the direct sales system throughout. The Nengdianyun industrial Internet platform built is transparent , Integrated full-process services, so that the project process is under control.

The century-old brand is the ultimate dream of Wincell. It has been developing continuously for decades. We look forward to the direction of the times and reshape the quality of life. We are only an enterprise that practices "creating a good life brought by good insulation for human beings and society". mission. Under the new journey of the new era, Wincell will lead the development of the industry and continue to forge ahead!

BACKGROUND

The energy used by the existing electromechanical HVAC system is basically high-grade non-renew able energy. The extensive use of these energy sources makes the earth's resources increasingly scarce and brings serious environmental problems.

With the in-depth development of the industry and the continuous improvement of energy saving, emission reduction and environmental protection requirements, how to reduce unnecessary energy loss in the field of HVAC is an important indicator of energy saving.

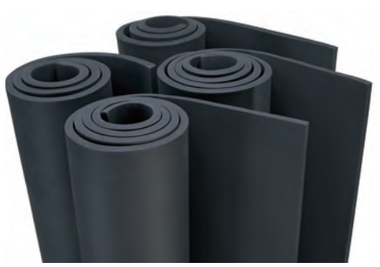
Wincell's high-quality products and perfect technical solutions are widely used in the field of electro mechanical HVAC. Whether it is used as a thermal insulation material as well as noise reduction, or as an external protection material for beautification and anti-corrosion, Wincell thermal insulation makes extraordinary performance.

NBR INSULATION MATERIAL

GENERAL NBR INSULATION

Wincell General Rubber and Plastic is a flexible rubber and plastic insulation material with completely closed cells that is foamed with butyl rubber as the main raw material. The excellent product performance makes the product widely used in various public places, industrial plants, clean rooms and Scenarios such as medical education institutions.

CLASS **0**



CLASS **1**

PRODUCT PARAMETERS

Physical Property		Performance Index	Standard
Steel density Kg/m^3		40-80	GB/T 6343
Thermal conductivity W/(m·k)		< 0.030 at -20°C < 0.032 at 0°C < 0.037 at 40°C	GB/T 10294
Moisture permeability	Permeability coefficient	≤ 1.96x10^{-11}	GB/T 17146
	Wet resistance factor	≥ 10000	GB/T 17146
Vacuum holding %		≤ 8	GB/T 17794
Aiming performance		Flame retardant B1 level	GB 8624
Smoke toxicity		ZA3 roll grade	GB/T 20285
Ruler %		(105℃ ±3℃, 7d) ≤ 10	GB/T 8811
Compression rebound rate %		(compression rate 50%, 72h) > 70	GB/T 6669
Anti-aging 150h		Slightly wrinkled, no cracks, no pinholes, no deformation	GB/T 16259
Applicable temperature range ℃		-50 ~ 110	GB/T 17794

W1T/W1S SPECIFICATION

W1T/W0T Wincell CLASS 1 / CLASS 0 Pipe Specification Model Table 1

Fits pipe type			Insulation	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness
Seamless steel pipe	Copper pipe	Galvanized pipe	Inner diameter mm	6mm	9mm	13mm	15mm	20mm	25mm
	1/4″		6	06006	09006	13006	15006	20006	25006
	3/8″	DN6	10	06010	09010	13010	15010	20010	25010
	1/2″		13	06013	09013	13013	15013	20013	25013
15	5/8″	DN8	16	06016	09016	13016	15016	20016	25016
	3/4″		19	06019	09019	13019	15019	20019	25019
22	7/8″	DN15	22	06022	09022	13022	15022	20022	25022
25	1″		25	06025	09025	13025	15025	20025	25025
28	1-1/8″	DN20	28		09028	13028	15028	20028	25028
32	1-1/4″		32		09032	13032	15032	20032	25032
	1-3/8″	DN25	35		09035	13035	15035	20035	25035
38	1-1/2″		38		09038	13038	15038	20038	25038
	1-5/8″	DN32	43		09043	13043	15043	20043	25043
45	1-3/4″		45		09045	13045	15045	20045	25045
	1-7/8″	DN40	48		09048	13048	15048	20048	25048
	2-1/8″		54		09054	13054	15054	20054	25054
57	2-1/4″		57		09057	13057	15057	20057	25057
	2-3/8″	DN50	60		09060	13060	15060	20060	25060
			67		09067	13067	15067	20067	25067
76		DN70	76		09076	13076	15076	20076	25076
89		DN80	89		09089	13089	15089	20089	25089
108			108		09108	13108	15108	20108	25108
		DN100	114					20114	25114
133			133					20133	25133
		DN125	140					20140	25140
159			159					20159	25159
		DN150	168					20168	25168

•Reminder : The delivery period of the products with specifications in red is slightly longer than that of regular products, please contact the sales department in advance to reserve sufficient delivery time.

W1S Wincell CLASS 1 Sheet mode

Model	Thicknesss mm	Length m	Width m
W1S6	6	20	1.5
W1S10	10	20	1.5
W1S13	13	15	1.5
W1S15	15	15	1.5
W1S19	19	10	1.5
W1S20	20	10	1.5
W1S25	25	10	1.5
W1S30	30	8	1.5
W1S32	32	8	1.5
W1S35	35	5	1.0
W1S38	38	5	1.0
W1S40	40	5	1.0
W1S50	50	2	1.0

●Example of model designation：W1T25048

W-----Wincell brand
1----- Product grade code
T----- Uniform pipe code
25----- Rubber and plastic pipes make wall thickness(mm)
048----- Inside diameter of rubber and plastic pipe(mm)

●Note: If the inner diameter of the pipe to be insulated is greater than 108mm, plate is recommended. If the adiabatic thickness is greater than 32mm, double-layer or multi-layer pipe is recommended.

●Example of model designation：W1S19

W-----Wincell brand
1----- Product grade code
S----- Uniform plate code
19----- Rubber and plastic plates make wall thickness(mm)

●Note: When the design of insulation layer is larger than 32mm, it is recommended to use double layer or multi-layer plate insulation.

W1T/W1S SPECIFICATION

W1T/W0T Wincell CLASS 1 / CLASS 0 Pipe Specification Model Table 2

Fits pipe type			Insulation	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness
Seamless steel pipe	Copper pipe	Galvanized pipe	Inner diameter mm	30mm	32mm	35mm	38mm	40mm	50mm
	1/4″		6						
	3/8″	DN6	10	30010					
	1/2″		13	30013	32013				
15	5/8″	DN8	16	30016	32016				
	3/4″		19	30019	32019				
22	7/8″	DN15	22	30022	32022				
25	1″		25	30025	32025				
28	1-1/8″	DN20	28	30028	32028	35028			
32	1-1/4″		32	30032	32032	35032			
	1-3/8″	DN25	35	30035	32035	35035			
38	1-1/2″		38	30038	32038	35038			
	1-5/8″	DN32	43	30043	32043	35043	38043	40043	50043
45	1-3/4″		45	30045	32045	35045	38045	40045	50045
	1-7/8″	DN40	48	30048	32048	35048	38048	40048	50048
	2-1/8″		54	30054	32054	35054	38054	40054	50054
57	2-1/4″		57	30057	32057	35057	38057	40057	50057
	2-3/8″	DN50	60	30060	32060	35060	38060	40060	50060
			67	30067	32067	35067	38067	40067	50067
76		DN70	76	30076	32076	35076	38076	40076	50076
89		DN80	89	30089	32089	35089	38089	40089	50089
108			108	30108	32108	35108	38108	40108	50108
		DN100	114	30114	32114	35114	38114	40114	50114
133			133	30133	32133	35133	38133	40133	50133
		DN125	140	30140	32140	35140	38140	40140	50140
159			159	30159	32159	35159	38159	40159	50159
		DN150	168	30168	32168	35168	38168	40168	50168

•Reminder : The delivery period of the products with specifications in red is slightly longer than that of regular products, please contact the sales department in advance to reserve sufficient delivery time.

W0S Wincell CLASS 0 grade plate specification model

Model	Thicknesss mm	Length m	Width m
W0S6	6	20	1.5
W0S10	10	20	1.5
W0S13	13	15	1.5
W0S15	15	15	1.5
W0S19	19	10	1.5
W0S20	20	10	1.5
W0S25	25	10	1.5
W0S30	30	8	1.5
W0S32	32	8	1.5
W0S35	35	5	1.0
W0S38	38	5	1.0
W0S40	40	5	1.0
W0S50	50	2	1.0

●Example of model designation：W0T25048

W-----Wincell brand
0----- Product grade code
T----- Uniform pipe code
25----- Rubber and plastic pipes make wall thickness(mm)
048----- Inside diameter of rubber and plastic pipe(mm)

●Note: If the inner diameter of the pipe to be insulated is greater than 108mm, plate is recommended. If the adiabatic thickness is greater than 32mm, double-layer or multi-layer pipe is recommended.

●Example of model designation：W0S19

W-----Wincell brand
0----- Product grade code
S----- Uniform plate code
19----- Rubber and plastic plates make wall thickness(mm)

●Note: When the design of insulation layer is larger than 32mm, it is recommended to use double layer or multi-layer plate insulation.

AIRCRAFT CARRIER ADVANCED HEALTH INSULATION TUBE

Wincell Rubber Insulation material is a flexible rubber thermal insulation material with completely closed cells made of butadiene rubber as the main raw material through foaming. Excellent product performance makes the product widely used in various public places, industrial plants, and clean rooms and medical education institutions.

PRODUCT PERFORMANCE

Better insulation

The initial thermal conductivity is 0.032W/(mk)0°C
WINCELL rubber and plastic adopts a special formula process, has a completely closed-cell internal structure, lower and more stable thermal conductivity, and has obvious energy-saving effects in long-term operation.

Safer Guarantee

WINCELL rubber and plastic has obtained CQC certification. CQC certification is jointly issued by China Quality Certification Center and National Fireproof Building Materials Quality Supervision and Inspection Center. The combustion performance of its products has reached the B1 level of the GB8624 standard (additional levels: smoke production s2, burning drippings d0, smoke toxicity tllevel), which is the confidence guarantee for customers to choose Wincell rubber and plastics.

Longer service life

Humidity resistance factor ＞ 10000
WINCELL rubber and plastic can effectively prevent the penetration of external water vapor, ensure the long-term stability of the physical properties of the material, and prolong the service life of the product in various environments.

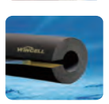
Easier installation

Wide application, easy installation, short construction period, high efficiency and more economical!

Better anti-mildew and anti-bacterial properties

Efficient antibacterial ability to prevent the growth and spread of germs and viruses.




AIRCRAFT CARRIER ADVANCED HEALTH INSULATION TUBE

PRODUCT PARAMETERS

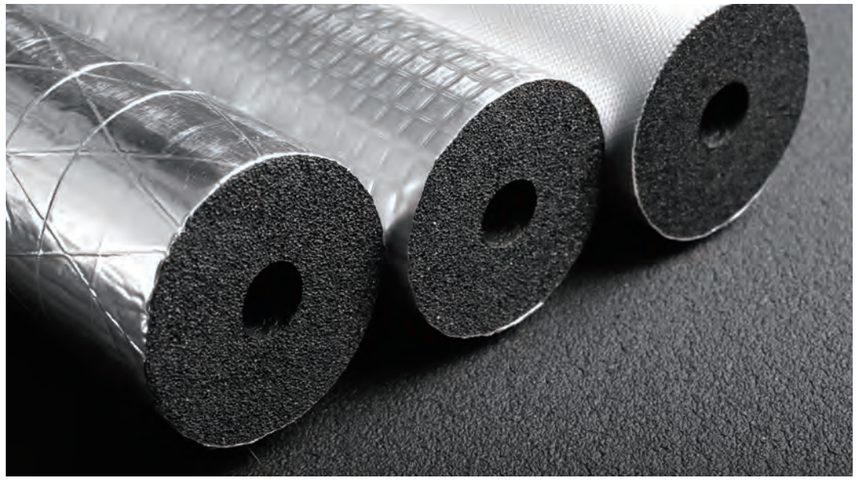
Performance	Indicators	Note
Steel density Kg/m^3	40-80	GB/T 6343
Minimum service temperature	-50℃	
Highest aiming	+105℃	
Thermal Conductivity	≤ 0.030 at -20℃ ≤ 0.032 at 0℃ ≤ 0.037 at 40℃	GB/T 10294
Penetration number	≥ 1.96×10^{11}	GB/T 17146
Moisture resistance factor	≥ 10,000	GB/T 17146
Oxygen Index	≥ 32%	GB/T 2406
Vacuum suction %	≤ 8	GB/T 17794
Performance	Flame retardant B1 level	GB 8624
To warm the evening	Requirements for brochure	

Thickness (length) / Inside diameter	9mm(1.8m) carton	13mm(2m) carton	15mm(2m) carton	20mm(2m) carton
6mm	160	88	80	45
10mm	120	72	64	40
13mm	100	65	56	35
16mm	80	56	50	30
19mm	72	47	42	25
22mm	60	42	36	25
25mm	60	42	35	25
28mm	50	35	30	20
32mm	40		30	20
35mm	40			20
38mm	40			18
43mm	40			16
48mm	35			14

Note: carton size 400mm x 330mm

WF COMPOSITE INSULATION

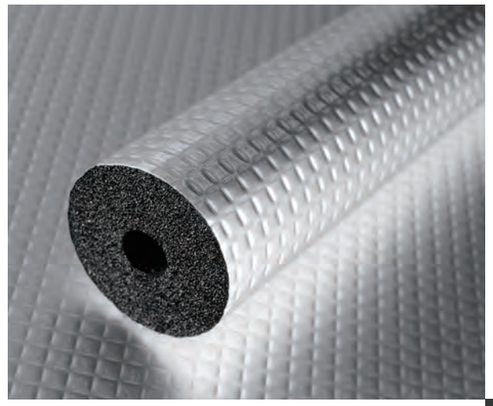
Wincell WF composite rubber and plastic thermal insulation material is made of polymer composite layer and Wincell rubber and plastic thermal insulation material is fused with special technology, which comprehensively improves the performance and thermal insulation indicators of rubber and plastic thermal insulation material, and leads the new technological change of composite rubber and plastic thermal insulation material.



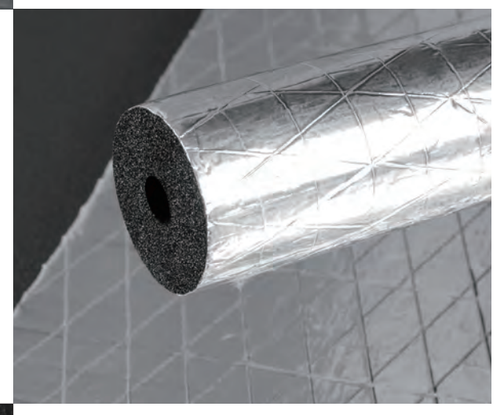
PRODUCT PARAMETERS

Performance item		Performance	Standard compliance
Meet density Kg/m^3		40-80	GB/T 6343
Derivative number W/(m·k)		≤ 0.030 at -20℃ ≤ 0.032 at 0℃ ≤ 0.037 at 40℃	GB/T10294
Moisture permeability	Moisture g/(m·s·Pa)	≤ $1.3x10^{-11}$	GB/T17146
	Moisture resistance factor	≥ 15000	GB/T17146
Vacuum suction %		≤ 6	GB/T17794
Poor performance		Level B1	GB 8624
		Composite layer non-combustible Class A	GB 8624
smoke toxicity		ZA3 full grade	GB/T20285
Dimensions %		(105℃ ±3℃, 7d) ≤ 10	GB/T8811
Compression rebound rate %		(compression rate 50%, 72h) ≥ 70	GB/T6669
Anti-aging 150h		Light texture, no pinholes, no Na	GB/T16259
Applicable temperature range ℃		-50 ~ 110	GB/T17794

COMPOSITE NBR CLASSIFICATION



← WFA



WFB →

← WFD

WFA/WFB/WFD SPECIFICATION

WFA/WFB/WFD Wincell Pipe Specification Model Table 1

Fits pipe type			Insulation	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness
Seamless steel pipe	Copper pipe	Galvanized pipe	Inner diameter mm	6mm	9mm	13mm	15mm	20mm	25mm
	1/4″		6	06006	09006	13006	15006	20006	25006
	3/8″	DN6	10	06010	09010	13010	15010	20010	25010
	1/2″		13	06013	09013	13013	15013	20013	25013
15	5/8″	DN8	16	06016	09016	13016	15016	20016	25016
	3/4″		19	06019	09019	13019	15019	20019	25019
22	7/8″	DN15	22	06022	09022	13022	15022	20022	25022
25	1″		25	06025	09025	13025	15025	20025	25025
28	1-1/8″	DN20	28		09028	13028	15028	20028	25028
32	1-1/4″		32		09032	13032	15032	20032	25032
	1-3/8″	DN25	35		09035	13035	15035	20035	25035
38	1-1/2″		38		09038	13038	15038	20038	25038
	1-5/8″	DN32	43		09043	13043	15043	20043	25043
45	1-3/4″		45		09045	13045	15045	20045	25045
	1-7/8″	DN40	48		09048	13048	15048	20048	25048
	2-1/8″		54		09054	13054	15054	20054	25054
57	2-1/4″		57		09057	13057	15057	20057	25057
	2-3/8″	DN50	60		09060	13060	15060	20060	25060
			67		09067	13067	15067	20067	25067
76		DN70	76		09076	13076	15076	20076	25076
89		DN80	89		09089	13089	15089	20089	25089
108			108		09108	13108	15108	20108	25108
		DN100	114					20114	25114
133			133					20133	25133
		DN125	140					20140	25140
159			159					20159	25159
		DN150	168					20168	25168

•Reminder : The delivery period of the products with specifications in red is slightly longer than that of regular products, please contact the sales department in advance to reserve sufficient delivery time.

Specifications and models of WFA/WFB/WFD composite rubber and plastic sheet

Specification	Thickness mm	Length m	Width m
WFA/B/D 10	10	2	1.2
WFA/B/D 13	13	2	1.2
WFA/B/D 15	15	2	1.2
WFA/B/D 19	19	2	1.2
WFA/B/D 20	20	2	1.2
WFA/B/D 25	25	2	1.2
WFA/B/D 30	30	2	1.2
WFA/B/D 32	32	2	1.2
WFA/B/D 35	35	2	1.0
WFA/B/D 38	38	2	1.0
WFA/B/D 40	40	2	1.0
WFA/B/D 50	50	2	1.0

• If there are traces of specifications, you can marry our company's sales department

● Example of model designation: WFA/B/D T25048

W-----Wincell brand
F----- Basic composite drawer
A/B/D-----Philippine clamp metal layer/aluminum foil layer/ colorful fiber
25----- Basic drawer tube (mm)
048----- Inner diameter of Wincell rubber and plastic tube (mm)

●Remarks: The length of the pipe is 1 meter per branch. It is recommended to use plates if the inner diameter of the insulated pipe is greater than 108mm , and double-layer or multi-layer installation is recommended for insulation thickness greater than 30mm .

●Example description of type designation: WFA/B/C/D S19

W-----Wincell brand
F----- Basic composite drawer
A/B/D-----Philippine clamp metal layer/aluminum foil layer/colorful fiber layer
19----- The rubber and plastic walls are thick (mm)

●Remarks: When the insulation layer is designed to be larger than 32mm , it is recommended to use or multi-layer boards for insulation.
The width of the board scorpion is 1.2 meters, and the length is 2 meters per piece.

WFA/WFB/WFD SPECIFICATION

WFA/WFB/WFD Wincell Pipe Specification Model Table 2

Fits pipe type			Insulation	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness	Wall thickness
Seamless steel pipe	Copper pipe	Galvanized pipe	Inner diameter mm	30mm	32mm	35mm	38mm	40mm	50mm
	1/4″		6						
	3/8″	DN6	10	30010					
	1/2″		13	30013	32013				
15	5/8″	DN8	16	30016	32016				
	3/4″		19	30019	32019				
22	7/8″	DN15	22	30022	32022				
25	1″		25	30025	32025				
28	1-1/8″	DN20	28	30028	32028	35028			
32	1-1/4″		32	30032	32032	35032			
	1-3/8″	DN25	35	30035	32035	35035			
38	1-1/2″		38	30038	32038	35038			
	1-5/8″	DN32	43	30043	32043	35043	38043	40043	50043
45	1-3/4″		45	30045	32045	35045	38045	40045	50045
	1-7/8″	DN40	48	30048	32048	35048	38048	40048	50048
	2-1/8″		54	30054	32054	35054	38054	40054	50054
57	2-1/4″		57	30057	32057	35057	38057	40057	50057
	2-3/8″	DN50	60	30060	32060	35060	38060	40060	50060
			67	30067	32067	35067	38067	40067	50067
76		DN70	76	30076	32076	35076	38076	40076	50076
89		DN80	89	30089	32089	35089	38089	40089	50089
108			108	30108	32108	35108	38108	40108	50108
		DN100	114	30114	32114	35114	38114	40114	50114
133			133	30133	32133	35133	38133	40133	50133
		DN125	140	30140	32140	35140	38140	40140	50140
159			159	30159	32159	35159	38159	40159	50159
		DN150	168	30168	32168	35168	38168	40168	50168

•Reminder : The delivery period of the products with specifications in red is slightly longer than that of regular products, please contact the sales department in advance to reserve sufficient delivery time.

PACKAGE

In order to ensure the installation effect of the entire thermal insulation system, the auxiliary Wincell rubber and plastic insulation material products are installed and applied in various fields, and Wincell provides high-quality auxiliary material series products. Superior performance matching makes the overall thermal insulation effect of the project more perfect.

Carton:
The standard five-layer corrugated cardboard box of Xihe container transportation can be stacked up to 10 layers to protect the product from being squeezed.

Plastic bag packaging:
Made of strong plastic bags with larger capacity and more economical shipping.

SPECIAL NBR ACCESSARY

In order to ensure the installation of the entire insulation system, the auxiliary Wincell rubber and plastic insulation materials are installed and applied in various fields, and Wincell provides high-quality auxiliary material series products. Excellent performance matching makes the overall thermal insulation effect of the project more perfect.

Wincell Special Glue

Wincell special glue is flame retardant glue.
It is mainly used for the bonding of various Wincell rubber and plastic insulation materials. Wincell special glue is easy to install, has a short drying time, and has strong moisture resistance and strong weather resistance after drying, which can effectively prevent water vapor penetration at the joints, thereby ensuring the entire insulation system.
Standard specifications of Wincell special glue: 18.75 L/ barrel; 3.78 L/can. Other volumes can be customized according to the situation.

Wincell Special Tape

Wintape CT Duct Tape

It is suitable for the connection, bonding and fixing of joints during the installation of Wincell thermal insulation products in water pipes and air pipes of air-conditioning systems. Cloth tape is energy-saving and environment-friendly, easy to operate, and used together with Wincell thermal insulation materials, it can improve the ability of the joints of thermal insulation materials to resist water vapor penetration, and ensure the airtightness and integrity of the thermal insulation system.
Wintape CT Duct Tape
Standard specifications: 30mm (width) x25m (length) /50mm (width) x 25m (length). Other sizes are available upon request.

Wintape IT Insulation Tape

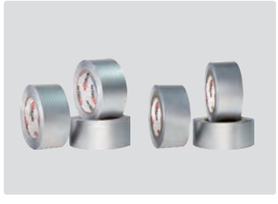
It adopts the same material as rubber and plastic insulation products, and its performance indicators are consistent with the products. It is applied to valves, pipe joints or complex-shaped special-shaped parts to prevent system heat/cooling loss, control condensation, and reduce vibration. and noise. In order to ensure a good thermal insulation effect, it is recommended to wrap it multiple times to ensure that the overall thickness is basically the same as the required material thickness to prevent condensation.

Wintape IT Insulation Tape
Standard specification: 3mm (thickness) x5cm (width) x20m (length)
5mm (thickness) x5cm (width) x20m (length)
Other sizes are available upon request.

Wintape AT Wincell composite tape

Wintape AT composite tape is made of aluminum metal material, which is the same material as Wintape composite rubber and plastic outer coating layer, and its performance indicators are consistent with Wintape composite rubber and plastic products, avoiding potential installation hazards.
Wintape AT composite rubber has good tillage property and is used in various connection parts to ensure the overall airtightness of the insulation system. When in use, just tear off the outer skin paper, adjust the proper position, and stick firmly.

Wintape AT composite tape:
Philippine clamp tape 50mm (width) x25m (length)
Aluminum foil tape 50mm (width) x40m (length)
Other sizes can be customized.



APPLICATION DOMAIN

Meeting high-end demands in the field of thermal insulation

The excellent and stable Wincell rubber and plastics have the advantages of effectively preventing oxidation, ultraviolet rays, acid and alkali corrosion, and resisting external force friction, etc., and are highly praised by customers. Wincell rubber and plastic has become an ideal thermal insulation material for many special applications, fully meeting the harsh environments such as food workshops, medical and health care, microelectronics workshops, tobacco, clean rooms and R&D centers, as well as airports and railway stations with high population density.

Application of Wincell rubber and plastic in special fields

Wincell rubber and plastics are used in special environments
High-end living environment: high-star hotels, office buildings, supermarkets
Various production environments: food workshop, medical and health, microelectronics factory, tobacco, clean room and R&D center
Various public facilities: airports, railway stations, convention centers, sports arenas

Wincell rubber and plastics are used in harsh environments

High acid and alkali corrosion environment: petroleum, chemical industry
Various closed space environments: ships, power trains, subways and other public facilities: machine rooms, trenches, outdoor open places

GLASSWOOL

GLASSWOOL

Good insulation performance

Wincell glass wool fibers are uniform and slender, and the fibers are arranged perpendicular to the direction of heat transfer, so that it can effectively prevent heat transfer and reduce heat loss. The product has passed the GB8624-2006 combustion performance A2 test, the combustion level is A2 level, and does not produce toxic gas and smoke.

Excellent sound absorption

Wincell glass wool greatly improves the sound-absorbing performance through fiber refinement technology. The glass fibers are intertwined to form many small cavities, which can well confine the air, reduce convection, and attenuate sound energy through fiber vibration to achieve heat insulation and absorption. noise reduction effect.

Green and environmental protection, no formaldehyde

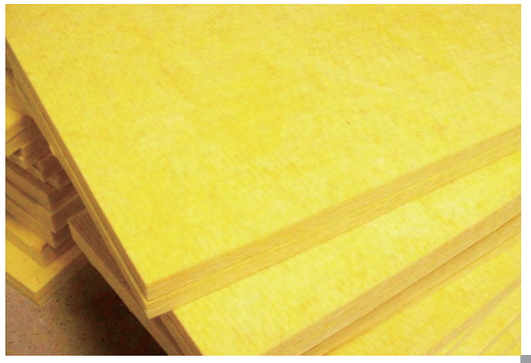
In order to meet the market's high-standard demand for green and environmentally friendly building materials, and to avoid harmful substances such as formaldehyde and phenol from harming the human body and the environment, Wincell Glass Wool can provide formaldehyde-free products to create a green and environmentally friendly application environment.

No smell, more skin-friendly

In order to create a more comfortable use experience, Wincell glass wool has changed the adhesive to eliminate the peculiar smell of glass wool and rock wool; the finer fibers make the glass wool feel softer, greatly reducing the tingling sensation, and improving the working environment on site.

GLASSWOOL SHEET

Wincell glass wool board is made of uniform and slender glass fiber and environmentally friendly thermosetting adhesive through special processing, and it is a board product with certain strength. With the increasing market demand for green and environmentally friendly building materials, Wincell has launched a variety of environmentally friendly materials to avoid harmful substances such as formaldehyde and phenol from harming the human body and the environment.



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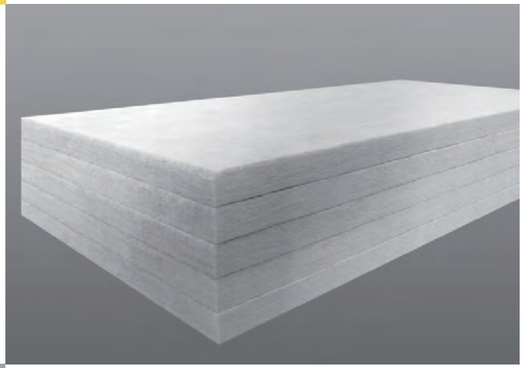

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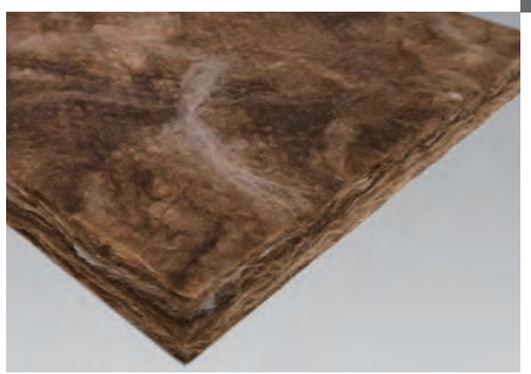


← WGMS

GLASSWOOL SHEET

Wincell glass wool board performance parameter table

performance item		performance parameter				compliance with standards
Working temperature range		-18°C to +250°C				GB/T 13350
Corrosion resistance		no chemical reaction				GB/T 13350
fiber diameter μm		5-7				GB/T 5480
Slag ball content (particle size> 0.25 mm) %		⩽ 0.3				GB/T 5480
Moisture content %		⩽ 1.0				GB/T 16400
Moisture absorption %		⩽ 5.0				GB/T 5480
Hydrophobic rate %		⩾ 98				GB/T 10299
Bulk density (kg/m^3)			24 ⩽ P ⩽ 32	32 ⩽ P ⩽ 40	P > 40	GB/T 13350
Thermal conductivity K(W/m. °C)	Average	25 °C	⩽ 0.038	⩽ 0.036	⩽ 0.034	GB/T 13350
	Average	70 °C	⩽ 0.044	⩽ 0.042	⩽ 0.040	GB/T 13350
Heat load shrinkage °C			⩾ 250	⩾ 250	⩾ 250	GB/T 13350
Combustion performance		non-combustible				GB 5464
		Grade A				GB 8624

Average temperature: refers to the arithmetic mean of the temperature of the air inside the air duct and the temperature of the outside air. The above test conditions are all glass wool boards without veneer. The data are standard values.
Data source: Test report of National Glass Fiber Product Quality Supervision and Inspection Center.

Wincell Glass Wool Board Standard Specifications

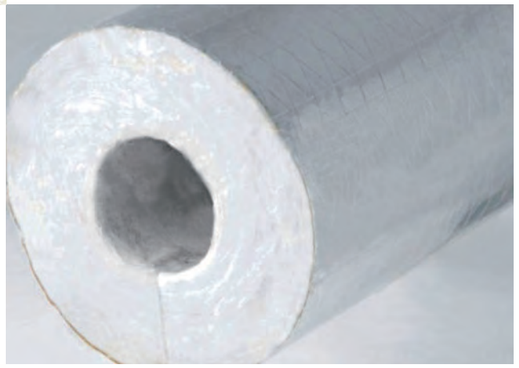
Bulk density (kg/m^3)	32	40	48	56	64	80	96
Thickness (mm)		25	30	40	50		
Width (mm)				600			
Length (mm)				1200			

The packaging is in plastic bags, and other specifications can be customized according to requirements.

GLASSWOOL TUBE

Wincell glass wool pipe shell is made of uniform and slender glass fiber and environmentally friendly thermosetting adhesive through special processing. It is suitable for the insulation of various types of cold and hot pipes, hidden/exposed pipes. Due to the particularity of its glass fiber, the product has excellent thermal insulation performance, extrusion resistance and impact resistance.

← WGT



WGNT →

← WGMT

GLASSWOOL TUBE

Wincell glass wool shell performance parameter table

performance item	performance parameter			compliance with standards
Working temperature range	-18°C to +250 °C			GB/T 13350
Corrosion resistance	no chemical reaction			GB/T 13350
Average fiber diameter μm	5-7			GB/T 5480
Slag ball content (particle size > 0.25 mm) %	⩽ 0.3			GB/T 5480
Moisture content %	⩽ 1.0			GB/T 16400
Moisture absorption %	⩽ 5.0			GB/T 5480
Hydrophobic rate %	⩾ 98			GB/T 10299
Bulk density (kg/m^3)	48	64	80	GB/T 13350
Thermal conductivity K(W/m. °C) Average 70°C	⩽ 0.042	⩽ 0.042	⩽ 0.042	GB/T 13350
Heat load shrinkage temperature °C	⩾ 250	⩾ 250	⩾ 250	GB/T 13350
Combustion performance level	non-combustible material			GB 5464
	Grade A			GB 8624

The above test conditions are all glass wool tubes without veneer

★ For air-conditioning chilled water pipes, cold and hot dual-purpose pipes, every three sections of the pipe shell should be evenly applied to the section of the pipe shell with Wincell Aier’s special sealing paste connect.

★ Wingsheng Glass Wool Special Sealing Paste is an elastic polymer with a red environmental protection formula containing anti-mold and antibacterial ingredients. When used, it will form a layer of uniform elastic waterproof film after natural air drying, which can strongly separate the penetration of water vapor and Diffusion, suitable for sealing, strengthening, water vapor separation and partial filling of glass wool sections.

★ The section treatment of the tube shell can ensure that the water vapor and the diffusion of water entering the insulation material will be effectively intercepted in case of an accident, and will not cause the performance of the entire insulation system to weaken.

Wincell Glass Wool Shell Standard Specifications

Bulk density (kg/m^3)	48		64		80		100
Thickness (mm)	25	30	40	50	60	65	70
Length (mm)			1000	1200			
Diameter (mm)			16-457				

The packaging is in plastic bags, and other specifications can be customized according to requirements.
When ordering, please specify the outer diameter of various pipes, the wall thickness of the glass wool shell, the bulk density, and the type of veneer.

GLASSWOOL BLANKET

Wincell glass wool felt has fluffy and interlaced fibers and a large number of tiny pores. It is a typical porous sound-absorbing material with good sound-absorbing properties. When the sound wave is incident on the glass wool, the sound wave can enter the interior of the material along the pores, causing the air molecules in the gap to vibrate. Due to the viscous resistance of the air and the friction between the air molecules and the pore walls, the sound energy is converted into heat energy and lost.

← WGZ

WGNZ →

← WGMZ

GLASSWOOL BLANKET

Glass wool felt performance parameter table

performance item		performance parameter				compliance with standards
Working temperature range						GB/T 13350
Corrosion resistance						GB/T 13350
Average fiber diameter kim μm						GB/T 5480
Slag ball content (particle size> 0.25 mm) %						GB/T 5480
Moisture content %						GB/T 16400
Moisture absorption %						GB/T 5480
Hydrophobic rate %						GB/T 10299
Bulk density (kg/m^3)			16 ⩽ P ⩽ 24	24 ⩽ P ⩽ 32	32 ⩽ P ⩽ 40	GB/T 13350
Thermal conductivity K(W/m. °C)	Average	25 °C	⩽ 0.041	⩽ 0.038	⩽ 0.036	GB/T 13350
	Average	70 °C	⩽ 0.048	⩽ 0.044	⩽ 0.042	GB/T 13350
Heat load shrinkage temperature °C			⩾ 250	⩾ 250	⩾ 250	GB/T 13350
Combustion performance level						GB 5464
						GB 8624

The above test conditions are for glass wool felt without veneer.
Data source: National Glass Fiber Product Quality Supervision and Inspection Center Test Report.

Wincell Glass Wool Blanket Standard Specifications

Bulk density (kg/m^3)	24	32	40	48
Thickness (mm)	25	30	40	50
Width (mm)	1200			
Length (mm)	10000-30000 (determined by bulk density and thickness)			

The packaging is in plastic bags, and other specifications can be customized according to requirements.

Product veneer performance

F40 domestic single-layer reinforced aluminum foil

Physical structure		Veneer performance	
	Aluminum foil 7micron	Veneer Width	1.2 m
	Three-way fiberglass mesh 8 strips /100mm (longitudinal) 12 strips /100mm (oblique)	weight	100g/m^2
		Water vapor penetration g/（m^2.s.Pa)	⩽4.0×10^{-9}
	polyethylene binder	Bursting strength N	⩾35
	Kraft paper 60g/m^2	Tensile breaking strength N/25mm	⩾110
			⩾50
		Thickness (micrometer)	——

F50 Imported Fireproof Single-sided Ribbed Aluminum Foil

Physical structure		Veneer performance	
	Aluminum foil 7.6micron	Veneer Width	1.2 m
	Elastomeric polymer layer 2.5micron	weight	103g/m^2
		Water vapor penetration g/（m^2.s.Pa)	⩽3.0×10^{-9}
	Three-way fiberglass mesh 8 strips /100mm (longitudinal) 12 strips /100mm (oblique)	Bursting strength N	⩾35
		Tensile breaking strength N/25mm	⩾110
	water-based latex		⩾50
	100% virgin kraft paper 49g/m^2	Thickness (micrometer)	203micron

F60 domestic flame retardant double-sided aluminum foil

Physical structure		Veneer performance	
	Aluminum foil 7micron	Veneer Width	1.2 m
	Three-way fiberglass mesh 20 strips /100mm (longitudinal) 12 strips /100mm (oblique)	weight	125g/m^2
		Water vapor penetration g/（m^2.s.Pa)	⩽2.0×10^{-9}
	Flame Retardant Adhesive	Bursting strength N	⩾35
	kraft paper	Tensile breaking strength N/25mm	⩾120
	Flame Retardant Adhesive		⩾80
	Aluminum foil 7micron	Thickness (micrometer)	——

F80 imported flame retardant extra strong double-sided aluminum foil

Physical structure		Veneer performance	
	Aluminum foil 7.6micron	Veneer Width	1.2 m
	Elastomeric polymer layer 2.5micron	weight	132g/m^2
	Polyester network cable 4 strips /100mm (longitudinal)	Water vapor penetration g/（m^2.s.Pa)	⩽1.0×10^{-9}
		Bursting strength N	⩾35
	latex layer	Tensile breaking strength N/25mm	⩾120
	Three-way fiberglass mesh 16 strips /100mm (longitudinal) 20 strips /100mm (oblique)		⩾80
		Thickness (micrometer)	178micron
	100% virgin kraft paper 49g/m^2		
	fire resistant latex		
	Aluminum foil 7.6micron		

W38 imported extra strong moisture-proof and anti-corrosion polypropylene veneer

Physical structure		Veneer performance	
	White (black) metallized polypropylene film surface layer	Veneer Width	1.2 m
	38.1micron	weight	127g/m^2
	Flame Retardant Adhesive	Water vapor penetration g/（m^2.s.Pa)	⩽6.0×10^{-9}
	Three-way fiberglass mesh 20 strips /100mm (longitudinal) (including glass fiber and polyphenol wire) 20 pieces / 100mm (oblique direction)	Bursting strength N	⩾80
		Tensile breaking strength N/25mm	⩾150
			⩾90
	100% virgin kraft paper 49g/m^2	Thickness (micrometer)	254micron

W38-II imported flame retardant white/black coated aluminum foil

Physical structure		Veneer performance	
	White/black aluminum foil	Veneer Width	1.2 m
	Elastomeric Polymer	weight	108g/m^2
	Three-way glass fiber mesh longitudinal 8/100mm glass fiber transverse 12/100mm glass fiber	Water vapor penetration g/（m^2.s.Pa)	⩽6.0×10^{-9}
		Bursting strength N	⩾80
	Flame Retardant Adhesive	Tensile breaking strength N/25mm	⩾150
	kraft paper		⩾90
		Thickness (micrometer)	208micron

FFR water-resistant and flame-retardant aluminum foil glass fiber cloth veneer

Physical structure		Veneer performance	
	aluminum foil	Veneer Width	1.2 m
		weight	——
	glassfiber	Water vapor penetration g/（m^2.s.Pa)	⩽4.0×10^{-9}
		Bursting strength N	⩾250
		Tensile breaking strength N/25mm	⩾600
	binder		⩾350
		Thickness (micrometer)	——

CERAMIC FIBER

CERAMIC FIBER

Low thermal conductivity

Wincell ceramic fiber is a light-weight heat-insulating refractory material made of selected high-quality raw materials, continuous fiber spinning by resistance furnace melting, double-sided needling, and high-temperature shaping. It has a low bulk density and a very significant heat insulation effect.

Class A non-combustible

The combustion performance of Wincell ceramic fiber insulation material is Class A non-combustible, and the product has passed the GB 8624 combustion performance test.

Thermal stability

Wincell ceramic fiber has strong stability and does not deform under high temperature, and the service temperature can reach 1250°C.

Chemical stability

When used for a long time in a neutral and oxidizing environment, Wincell ceramic fiber can still maintain good tensile strength, toughness and fiber structure, and the product is not affected by oil corrosion.

Sound absorption and noise reduction

Porous material, the sound can be converted into heat energy by friction with the fiber and emitted.

CW ceramic fiber is obtained from high-quality raw materials melted at high temperature, spun into fibers, and heat-cured to shape them. According to customer needs, the outer surface can be covered with glass fiber cloth, aluminum foil glass fiber cloth. Products include plates, roll blankets, shells, etc. Ceramic fiber thermal insulation material integrates the functions of fire resistance, heat insulation and heat preservation. It has high strength at room temperature and after burning, and can be widely used in the fields of fire resistance, heat insulation and heat preservation in various industries.

CWS

CWZ

CERAMIC FIBER

Wincell ceramic fiber product performance parameter table

Performance Items	CWS Ceramic Fiber Boards			CWZ Ceramic Fiber Blankets		
Product standard	GB/T 16400					
Operating temperature (°C)	600~1250			800~1250		
Corrosion resistance	No chemical reaction			No chemical reaction		
Bulk density (kg/m^3)	90~120			64~192		
Chemical composition	Ingredient type	Al_2O_3	$Al_2O_3 + SiO_2$	Ingredient type	Al_2O_3	$Al_2O_3 + SiO_2$
	Common type (C)	⩾40.0%	⩾95.0%	Common type (C)	⩾40.0%	⩾95.0%
				Standard type (S)	⩾43.0%	⩾97.0%
				High purity type (P)	⩾43.0%	⩾98.5%
	Standard type (S)	⩾43.0%	⩾97.0%	Zirconium type (Zr)	$Al_2O_3 + SiO_2 + ZrO_2$ ⩾99.0%, ZrO_2 ⩾15.0%	
				With Ming type (Cr)	$Al_2O_3 + SiO_2 + TCr_2O_3$ ⩾99.0%, Total chromium(TCr_2O_3) ⩾1.2%, Hexavalent chromium[Cr(VI)] ⩽0.1%	
Slag ball content (particle size⩾0.212μm) %	⩽20			⩽20		
Heating permanent line change %	⩾-4.0			⩾-4.0		
Compressive strength (kpa)	90~120 kg/m^3	⩾10		-		
Moisture content %	⩽1.0			⩽1.0		
Combustion performance	Grade A			Grade A		
Thermal conductivity (W/m·k) Average temperature 500°C	90~120 kg/m^3	⩽0.161		64~95 kg/m^3	⩽0.178	
				96~127 kg/m^3	⩽0.161	
				128~160 kg/m^3	⩽0.156	
Tensile strength (kpa)	-			64~95 kg/m^3	⩾10	
				96~127 kg/m^3	⩾14	
				128~160 kg/m^3	⩾21	

Standard Specifications of Wincell Ceramic Fiber Products

CWS ceramic fiber board		CWZ ceramic fiber blanket	
Length (mm)	1000 900	Length (mm)	3600 5400
Width (mm)	1200 600	Width (mm)	610
Thickness (mm)	10~50	Thickness (mm)	10~50

Note: Other specifications can be customized upon request.

COMPOSITE DUCT

COMPOSITE DUCT

Thermal insulation, energy saving and consumption reduction

Wincell composite air duct adopts high-density glass wool board with a thermal conductivity as low as 0.033W/mk, which can effectively control the energy loss of the air handling system and reduce the operating cost of the HVAC system.

A fire protection, high safety

Wincell composite air duct is made of non-combustible A -grade high-density glass wool board, double-sided color steel plate inside and outside and flame-retardant accessories. The entire air duct system fully meets the fire protection requirements of GB8624-2012 , ensuring safe fire performance.

Sound absorption and noise reduction, quiet space

Wincell composite air duct glass wool material itself has excellent sound absorption performance, which can fully absorb various noise energy in the air flow, not only avoiding the operation noise of air conditioning and ventilation equipment from being transmitted to the use space through the air flow, but also preventing the passage of wind between rooms. The tube transmits sound to ensure the tranquility and comfort of each room.

Anti-mold and anti-bacterial, healthy environment

The inner wall of Wincell composite air duct is made of color steel plate, which is completely sealed to prevent the humid environment, effectively inhibit the growth and reproduction of various bacteria in the air duct, prevent the air inside the air duct from being polluted, ensure the indoor air quality, and prevent the occurrence of various air-conditioning diseases.

Fast production, shortening the construction period

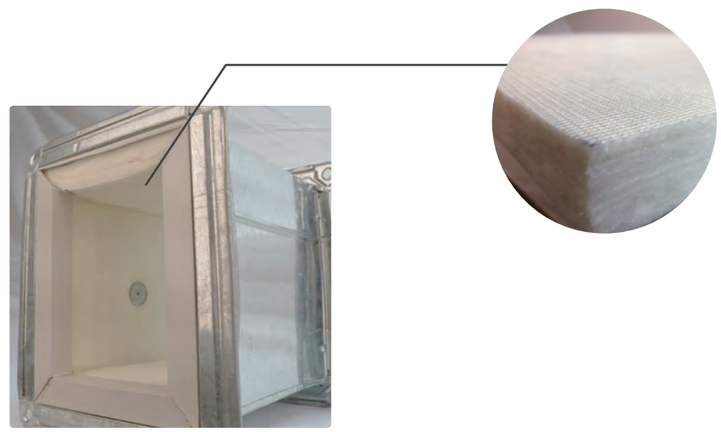
Wincell composite air duct is an air duct system that is prefabricated from formed glass wool boards and is processed and manufactured by an advanced fully automatic production line. The inner surface of the air duct is flat and smooth. The color steel on the outer surface of the air duct can be changed according to the decoration needs. The horizontal ribs on the outer surface have a three-dimensional and comfortable feeling. It is convenient and quick to manufacture, easy to transport and install, and has high construction efficiency.

More space saving

No need for secondary insulation, one-time molding, can make full use of the floor height, can be attached to the beam and hoisted, saving space.

FORMALDEHYDE-FREEENVIRONMENTALMUFFLERDUCT

The formaldehyde-free environmental protection silencer air duct is a new type of air duct developed by using new technology and new materials, and does not contain toxic and harmful substances such as formaldehyde and ammonia benzene. The product is made of inorganic glass fiber bonded with acrylic thermosetting resin. It is durable, provides a cleanable fireproof inner surface, and minimizes friction loss. It is widely used in various places.



Wincell performance index of formaldehyde-free environmental protection silencer air duct

Project name	Technical	Unit	Standard
Combustion performance	Integral non-combustible Class A		GB/T 8624
Thermal conductivity	≤ 0.033	W/m·k	GB/T 10294
Water absorption rate	< 3	%	GB/T 5480
Compressive strength	2500	Pa	
Mycotic resistance	Mold protection soaring 0		GB/T 2423.16
Formaldehyde, benzene release amount	No release		
Fiber shedding	0		GB/T 16147
Operating temperature	-50-110	℃	

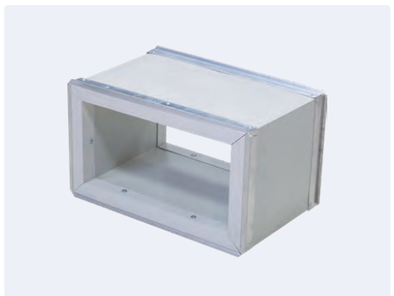
Air duct connection form

- PVC Insert Method
- Aluminum Broken Bridge Insulation Method

FIBERGLASS COMPOSITE DUCT

WDG glass fiber composite air duct

The glass fiber composite air duct is a new type of air duct plate made of centrifugal glass wool board as the main body, which has low thermal conductivity, excellent heat preservation effect and excellent sound absorption performance. Compared with phenolic composite air ducts, glass fiber composite air ducts have more outstanding fire performance, and can reach the national standard GB8624-2012 Class A non-combustible.



Double-sided color steel glass fiber composite air duct

Performance index of glass fiber composite air duct

Project name	Unit	Technical parameter	Standard
Core thickness	mm	25、30	GB/T 17794
Core density	kg/m^3	48-80	GB/T 17794
Color plate thickness	mm	0.4-0.5	
Combustion performance		Overall non-combustible Class A	GB/T 8624
Thermal conductivity	W/m.K	≤ 0.033	GB/T 10294
Water absorption rate	%	<3	GB/T 5480
Compressive strength	Pa	2500	
Mycotic resistance		Mold growth level 0	GB/T2423.16
Formaldehyde, benzene release amount		No release	
Fiber shedding		0	GB/T16147
Operating temperature	℃	-50-110	

Air duct connection form

- PVC cut-type flange connection
- Aluminum alloy broken bridge insulation flange connection

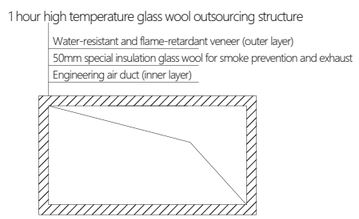
SMOKE CONTROL AND EXHAUST DUCT

WDSM smoke exhaust duct

Wincell's anti-smoke exhaust duct breaks through the traditional process, adopts UE galvanized steel skin, which greatly improves the strength of the duct, and can effectively cover up the slight traces of the ton during installation, enhance the aesthetics of the duct, and become a composite duct Another Ft trending product of the material.

1. Coated anti-smoke and heat-insulated air duct

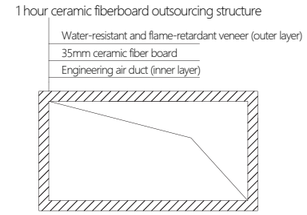
1 hour high temperature glass wool outsourcing structure



Cross section of air duct

Project name		Technical parameter
Structure		Slightly steel plate + special glass wool for anti-shrinkage + water-resistant and flame-retardant veneer
Inner layer	Material	Galvanized steel
	Thickness	Industrial management
Core	Name	Insulation glass wool for female smoke
	Thickness	50mm
	Density	48k
Outer layer	Material	Water resistant flame retardant veneer
	Thickness	--
Connection method		Duct making
Construction methods		Wind pipe hoisting, bream worker

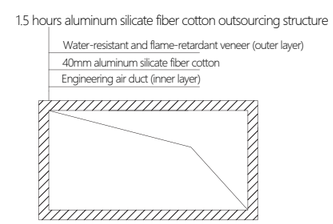
1 hour ceramic fiberboard clad structure



Cross section of air duct

Project name		Technical parameter
Structure		Slightly steel plate + pottery booty + feMTO veneer
Inner layer	Material	Galvanized steel
	Thickness	work mm management
Core	Name	ceramic fiber board
	Thickness	35mm
	Density	90k
Outer layer	Material	Water resistant flame retardant veneer
	Thickness	--
Connection method		Duct making continues
Construction methods		Wind pipe hoisting, bream worker

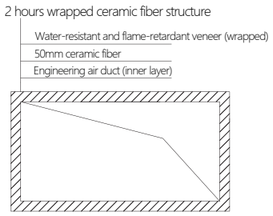
1.5 hours aluminum silicate fiber cotton outsourcing structure



Cross section of air duct

Project name		Technical parameter
Structure		Liaogang board + silicon solution Lu fiber cotton + water resistant veneer
Inner layer	Material	Plated steel plate
	Thickness	Work Ou Control Potential
Core	Name	Silica fiber cotton
	Thickness	40mm
	Density	96k
Outer layer	Material	Water resistant flame retardant veneer
	Thickness	--
Connection method		Duct making continues
Construction methods		Wind pipe hoisting, bream worker

2 hours wrapped ceramic fiber structure

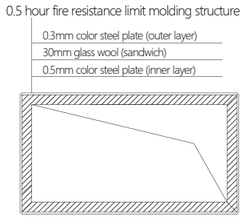


Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + ceramic fiber + water resistant flame retardant veneer
Inner layer	Material	Galvanized steel plate
	Thickness	Engineering duct wall thickness
Core	Name	Ceramic fibre
	Thickness	50mm
	Density	96k
Outer layer	Material	Water resistant flame retardant veneer
	Thickness	--
Connection method		Air duct production decision
Construction methods		Air pipe hoisting and cladding secondary construction

2.Formed smoke-proof and heat-insulated air duct

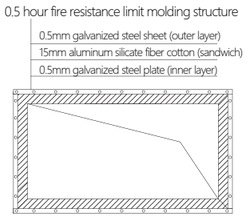
0.5 hour fire resistance limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Tillage board + glass wool + color board
Inner layer	Material	scare board
	Thickness	0.5mm
Core	Name	glass wool
	Thickness	30mm
	Density	80k
Outer layer	Material	board
	Thickness	0.3mm
Connection method		Aluminum broken bridge (aluminum alloy flange)
Construction methods		One-time molding, high-speed hoisting

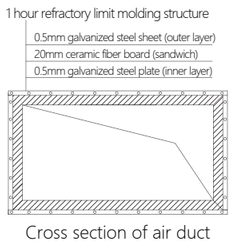
0.5 hour fire resistance limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + silicon Wulu + musk steel plate
Inner layer	Material	Galvanized steel plate
	Thickness	0.5mm
Core	Name	Aluminum silicate fiber cotton
	Thickness	15mm
	Density	120k
Outer layer	Material	Galvanized steel plate
	Thickness	0.5mm
Connection method		Angle flange/cutting flange
Construction methods		One molding, direct lifting

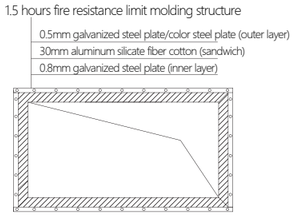
1 hour refractory limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + ceramic fiber board + galvanized steel plate
Inner layer	Material	Galvanized steel plate
	Thickness	0.5mm
Core	Name	Ceramic fiber board
	Thickness	20mm
	Density	120k
Outer layer	Material	Galvanized steel plate
	Thickness	0.5mm
Connection method		Angle flange/cutting flange
Construction methods		One molding, direct lifting

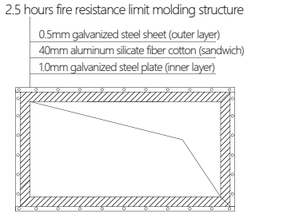
1.5 hours fire resistance limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + aluminum silicate + galvanized steel/color steel plate
Inner layer	Material	Galvanized steel plate
	Thickness	0.8mm/1.0mm
Core	Name	Aluminum silicate fiber cotton
	Thickness	30mm
	Density	120k
Outer layer	Material	Galvanized steel/color steel
	Thickness	0.5mm
Connection method		Angle flange/cutting flange
Construction methods		One molding, direct lifting

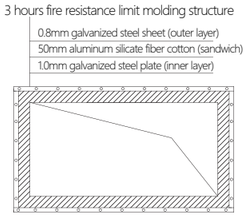
2.5 hours fire resistance limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + aluminum silicate + galvanized steel plate
Inner layer	Material	Galvanized steel plate
	Thickness	1.0mm
Core	Name	Aluminum silicate fiber cotton
	Thickness	40mm
	Density	120k
Outer layer	Material	Galvanized steel plate
	Thickness	0.5mm
Connection method		Angle flange
Construction methods		One molding, direct lifting

3 hours fire resistance limit molding structure



Cross section of air duct

Project name		Technical parameter
Structure		Galvanized steel plate + aluminum silicate + galvanized steel plate
Inner layer	Material	Galvanized steel plate
	Thickness	1.0mm
Core	Name	Aluminum silicate fiber cotton
	Thickness	50mm
	Density	120k
Outer layer	Material	Galvanized steel plate
	Thickness	0.8mm
Connection method		Angle flange
Construction methods		One molding, direct lifting

COMPOSITE DUCT ACCESSARY

Composite air duct auxiliary materials are divided into interpolation series, Xizhu series, aluminum alloy series and public series. It is mainly used for the installation and maintenance of composite air ducts.

Wincell-duct win win composite air duct system product model list

Model	Thickness mm	Width mm	Length mm
WDFL	20/25/30mm	1200mm	3000/4000mm
WDFD/WDFS	20/25/30mm	1200mm	3000/4000mm
WDFG	20/25/30mm	1200mm	3000/4000mm
WDGL	20/25/30mm	1200mm	4000mm
WDGD/WDGS	20/25/30mm	1200mm	4000mm
WDNS	20/25/30mm	1200mm	4000mm

Wincell-duct phenolic composite air duct system

Accessory Series	Accessory name	Unit	Ratio/m^2
Interpolation series	Insert plane flange/insert right Angle flange	m/m	1.6/0.15
	Internal cuttings/zinc iron compensation Angle	m/m	0.8/2.4
	Angle guard	Only	1.2
Evening series	External plane flange/external right Angle flange/external insert	m/m/m	1.6/0.15/0.8
	Outer flange Angle	Only	1.2
Aluminium alloy series	Aluminum alloy broken bridge insulation flange	m	1.6
	Aluminum alloy broken bridge insulation cut	m	0.8
Common series	F-flange	m	0.15
	Reinforcing disc	Piece	0.8
	Aluminum foil tape	m	0.3
	Phenolic glue	kg	2.3
	Sealant	Branch	1.4

Wincell-duct glass fiber composite air duct system (external flange)

Name	Model	Model	Unit	Ratio/m^2
Aluminum alloy broken bridge insulation flange	20、25、30	root/4M	M	1.66
Aluminium alloy cut		root/4M	M	0.8
Fixed Angle		Only	Only	8
PVC plane external flange	20、25、30	root/4M	M	1.6
PVC external insert inserts		root/4M	M	0.6
Right Angle external flange	20、25、30	root/4M	M	0.1
F-flange	20、25、30	root/4M	M	0.05
U-flange	20、25、30	root/4M	M	0.05
Outer flange Angle	20、25、30	Only	Only	8
Reinforcing disc		String/50pieces	Only	2
Glue		Bucket/15KG	KG	0.2
Sealant		Box/24 pieces	branch	0.05

PVC INSULATION CLADDING

U-PVC INSUCOVER CLADDING

Strong acid and alkali resistance, good chemical impedance

Unlike stainless steel, aluminum skin, color steel and other products are easy to be corroded, U-PVC shell treasure in strong acid and alkali environment will not corrosion, especially suitable for chemical plants, laboratories and other acid and alkali environment.

Anti UV, anti aging, long service life

U-PVC shell treasure products add anti-UV and anti-aging ingredients, effectively improve the product's heat/light stability. In addition, U-PVC shell treasure density is small, greatly improve the service life of the product. According to the international standard ISO4892-2, the WEATHER-O-METER aging test box was used to test the weather-o-meter. The product was exposed to the simulated climate conditions for more than 2000 hours, which is equivalent to the condition of perennial exposed outdoor use for more than 10 years without significant change.

Low strength, easy cutting, short construction period

U-PVC shell treasure products are low strength, easy to cut and make, and a large number of shaped parts, no need for on-site production, fast construction, especially suitable for tight project time limit. Traditional metal material processing is difficult, special-shaped production is complex, difficult construction period is long. Under the same conditions, the construction cycle of U-PVC shell treasure products is only about 1/3 that of metal materials, greatly shortening the construction period and saving labor costs.

Low thermal conductivity, high flame retardant performance, good fire performance

U-PVC shell treasure products add flame retardant components, flame retardant level reached the national standard B1 level. In the test report issued by the National Fire Equipment Quality Supervision and Inspection Center, the oxygen index reached 42.1%. The small heat conduction coefficient makes it difficult for heat to be released from the pipe wrapped by U-PVC shell treasure products, and the thermal insulation performance is also competitive.

Clean and beautiful, clear logo, high degree of modularization

Different colors of U-PVC shell treasure products and rubber and plastic insulation layer close composite, making the whole pipe system more clear, beautiful, convenient maintenance, easy to achieve modular management.

U-PVC INSUCOVER CLADDING

U-PVC INSUCOVER protection plate

Generally used in large pipes, air pipes, tanks and other smooth surface of the outer protective layer, the need for professional workers on-site production.

Color:

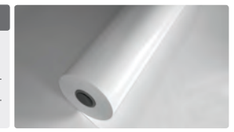
Model	Thickness mm	Width m	Length m/ box	㎡ / box
UP38	0.38	1.22	41	50
UP51	0.51	1.22	32.8	40
UP76	0.76	1.22	24.6	30

U-PVC INSUCOVER protection coil

Generally used in more than 200mm pipe and other cylindrical equipment.

Color:

Model	Thickness mm	Width m	Length m/ box	㎡ / box
UR38	0.38	1.22	41	50
UR51	0.51	1.22	32.8	40
UR76	0.76	1.22	24.6	30



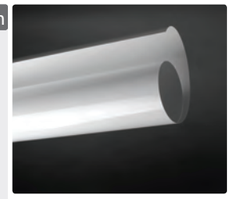
U- PVC INSUCOVER protection straight pipe

Generally used in pipe less than 200mm cylindrical equipment, insulation material diameter greater than 200mm can be directly used plate.

Thickness (mm) : 0.38、0.51、0.76

Color:

Model	Outer diameter of insulation material mm	Width m	Model	Outer diameter of insulation material mm	Width m
UT40	40	1.22	UT120	120	1.22
UT45	45	1.22	UT125	125	1.22
UT50	50	1.22	UT130	130	1.22
UT55	55	1.22	UT135	135	1.22
UT60	60	1.22	UT140	140	1.22
UT65	65	1.22	UT145	145	1.22
UT70	70	1.22	UT150	150	1.22
UT75	75	1.22	UT155	155	1.22
UT80	80	1.22	UT165	165	1.22
UT85	85	1.22	UT170	170	1.22
UT90	90	1.22	UT175	175	1.22
UT95	95	1.22	UT180	180	1.22
UT100	100	1.22	UT185	185	1.22
UT105	105	1.22	UT190	190	1.22
UT110	110	1.22	UT195	195	1.22
UT115	115	1.22	UT200	200	1.22

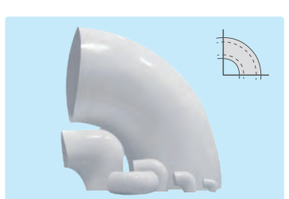


U-PVC INSUCOVER CLADDING

U-PVC INSUCOVER Protection-90 degree Long radius elbow (WCW)

Color:

Specification	Diameter after cladding	Thickness of insulation material mm						
		20	25	30	32	35	40	50
CW48*20	Φ88	48*20	34*25	27*30	21*32	21*35		
CW43*30	Φ103	64*20	48*25	43*30	34*32	27*35	21*40	
CW60*25	Φ110	70*20	60*25	48*30	43*32	34*35	27*40	
CW54*30	Φ114	76*20		54*30	54*32	43*35	34*40	
CW60*32	Φ124	89*20	76*25	64*30	60*32	60*35	43*40	
CW76*32	Φ140	102*20	89*25	76*30	76*32	70*35	60*40	43*50
CW89*32	Φ153	114*20	102*25	89*30	89*32	76*35	70*40	54*50
CW114*25	Φ164	133*20	114*25	102*30		89*35	76*40	60*50
CW108*30	Φ168			108*30			89*40	70*50
CW114*32	Φ178	140*20	133*25	114*30	114*32	108*35	102*40	76*50
CW134*30	Φ198	159*20	140*25	133*30	133*32	114*35	114*40	102*50
CW159*30	Φ219	168*20	168*25	159*30	140*32	140*35	133*40	108*50
CW168*30	Φ228			168*30	168*32		140*40	
CW140*50	Φ240	194*20				168*35	159*40	140*50
CW168*45	Φ258	219*20		195+30	194*32		168*40	159*50
CW194*40	Φ274		219*25			194*35	194*40	168*50
CW219*40	Φ299				245*32	219*35	219*40	194*50



U-PVC INSUCOVER CLADDING

U-PVC INSUCOVER Protection -Y (ST)

Color:

Model	Outer diameter of insulation material mm
ST41	41
ST47	47
ST53	53
ST62	62
ST68	68
ST72	72
ST82	82
ST88	88
ST102	102
ST116	116
ST128	128
ST141	141
ST154	154
ST167	167
ST180	180
ST193	193
ST219	219

U-PVC INSUCOVER Protection Tube Cap (GM)

Color:

Model	Outer diameter of insulation material mm
GM41	41
GM47	47
GM53	53
GM62	62
GM68	68
GM72	72
GM82	82
GM88	88
GM102	102
GM116	116
GM128	128
GM141	141
GM154	154
GM167	167
GM180	180
GM193	193
GM219	219
GM245	245
GM273	273
GM299	299
GM324	324
GM356	356
GM381	381
GM406	406

U-PVC INSUCOVER PROTECTION Outer Tube Cap Strip (EC)

Color:

Model	Specification mm (seam width x insulation thickness)	Rice/roll
EC20	30×20	10
EC30	30×30	10
EC40	30×40	10
EC50	30×50	10
EC60	40×60	10

U-PVC INSUCOVER CLADDING

U-PVC INSUCOVER Protection-90 degrees Short radius Elbow (WDW)

Color:

Model	Diameter after cladding	Thickness of insulation material mm					
		20	25	30	40	50	60
DW41	Φ41						
DW47	Φ47						
DW53	Φ53	13*20					
DW57	Φ57	16*20					
DW62	Φ62	22*20	13*25				
DW68	Φ68	28*20	16*25				
DW72	Φ72	32*20	22*25	13*30			
DW77	Φ77	35*20	28*25	16*30			
DW82	Φ82	42*20	34*25	22*30			
DW88	Φ88	48*20		28*30			
DW92	Φ92	54*20	42*25	34*30	13*40		
DW102	Φ102	60*20	54*25	42*30	22*40		
DW108	Φ108	70*20	60*25	48*30	28*40		
DW116	Φ116	76*20	64*25	54*30	35*40		
DW122	Φ122			60*30	42*40	22*50	
dw128	Φ128	89*20	76*25	64*30	48*40	24*50	
DW136	Φ136			76*30	57*40	34*50	
DW141	Φ141	102*20	89*25	83*30	60*40	43*50	21*60
DW149	Φ149	108*20		89*30	70*40	48*50	27*60
DW154	Φ154	114*20	102*25		76*40	54*50	
DW167	Φ167	127*20	114*25	108*30	89*40	70*50	48*60
DW180	Φ180	140*20	127*25		102*40	76*50	60*60
DW193	Φ193		140*25	134*30	114*40		76*60
DW206	Φ206	168*20	159*25		127*40	108*50	89*60
DW219	Φ219		168*25	159*30	140*40	114*50	
DW232	Φ232					134*50	114*60
DW245	Φ245				168*40	140*50	127*60
DW258	Φ258					159*50	140*60
DW273	Φ273					169*50	
DW283	Φ283			219*30		183*50	
DW299	Φ299					193*50	169*60

U-PVC INSUCOVER CLADDING

U-PVC INSUCOVER Protection-45 degree Elbow (3S)

Color:

Model	Applicable pipe outer diameter * Thickness of insulation material mm					
	20	25	30	40	50	60
3S41						
3S47						
3S53	13*20					
3S57	16*20					
3S62	22*20	13*25				
3S68	28*20	16*25				
3S72	32*20	22*25	13*30			
3S77	35*20	28*25	16*30			
3S82	42*20	34*25	22*30			
3S88	48*20		28*30			
3S92	54*20	42*25	34*30	13*40		
3S102	60*20	54*25	42*30	22*40		
3S108	70*20	60*25	48*30	28*40		
3S116	76*20	64*25	54*30	35*40		
3S122			60*30	42*40	22*50	
3S128	89*20	76*25	64*30	48*40	24*50	
3S136			76*30	57*40	34*50	
3S141	102*20	89*25	83*30	60*40	43*50	21*60
3S149	108*20		89*30	70*40	48*50	27*60
3S154	114*20	102*25		76*40	54*50	
3S167	127*20	114*25	108*30	89*40	70*50	48*60
3S180	140*20	127*25		102*40	76*50	60*60
3S193		140*25	134*30	114*40		76*60
3S206	168*20	159*25		127*40	108*50	89*60
3S219		168*25	159*30	140*40	114*50	
3S232					134*50	114*60
3S245				168*40	140*50	127*60
3S258					159*50	140*60
3S273					169*50	

APPLICATIONS

U - PVC Insucover treasure-shaped parts installation

Y-valve outside protection

Irregular pipe external protection

U - PVC Insucover Y - shaped installation

Local straight pipe Y filter

External protection of engineering pipeline

U - PVC insucover visual project

Cold water, hot water, steam pipe outer protection

External protection of air duct system

APPLICATIONS

Tesla factory

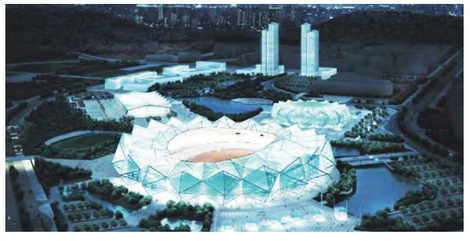
Huawei

National Theatre

National People's Congress Office Building

Beijing Tiantan Biology

Shanghai World Expo theme Pavilion



Shenzhen Universiade

Beijing Universal Theme Park

Beijing AIIB

List of other projects

Beijing Chaoyang Railway Station
Guangzhou Asian Games City
Shenzhen Convention and Exhibition Center
Zhongnanhai Convention Center
Chinese Navy Project 9155
National secretary bureau
Central Guard Office
Armed police hydropower command center
Hefei Binhu Center
Shandong Coal Geology Bureau
China Life Insurance Shaanxi Branch
Beijing Shangdi Service Center
State Grid Electric Power Research Institute
Jiangsu Bureau for Letters and Calls
Drilling Research and Development Center of petrochina
713 Research Institute of China Shipbuilding Industry Group
National Press and Publication Administration
Shanghai Jinshan People's Court
Chongqing Imperial Capital Square
Hilton Chengdu International Plaza
Shanghai Magnolia Plaza
Shanghai Century Hui Plaza
Mirae Asset Tower in Shanghai
Shanghai Huixin International Building
China International Purchasing Center
Zhongguancun Cultural Mall in Beijing
Kaikang Building in Beijing
Longshaoheng Building in Beijing
Shanghai Sixth People's Hospital
Shanghai Eighth People's Hospital
Jiangsu Provincial Hospital of Traditional Chinese Medicine
Affiliated Hospital of Jiangsu University
Shenzhen People's Hospital
Guangzhou Luogang Central Hospital
The Sixth People's Hospital of Wuhan
Wuhan Hankou Hospital
Dalian Seventh People's Hospital
Affiliated Hospital of Dalian University
Xinzheng International Airport in Henan Province
Terminal 3 of Beijing Capital International Airport
Chengdu Shuangliu Airport Group office building
Nanjing South Railway Station
Avic Chengdu Aircraft Design and Research Institute
611 101 scientific research buildings
Chongqing Railway Station
Beijing Olympic Park
Zhengzhou Railway Station
Pudong Lujiazui Financial Center
Citibank
China Construction Bank
Shanghai Wudaokou Financial Center
Shenzhen China Merchants Bank
Shangri-la Hotel
Hilton Hotel
Atlantis Hotel Haitang Bay, Sanya City
Bosiden Hotel, Texas
Dezhou Waihai Hotel
Dongguan press Building
Haining Campus of Zhejiang University College
Harbin Institute of Physical Education
Minhang Campus of Shanghai Jiao Tong University
Zhongguancun Software Park in Beijing
Beijing Renmin University swimming Pool
Nanjing television studio Center
Sports Center of Nanjing Normal University
Library of Fuzhou Medical University
Shenzhen Grand Theatre
Huizhou Xinli Photoelectric
Hangzhou Yingfit Electronics
Shanghai Baoshan Data Center
Green dot Technology
Samsung Electronics
Flextronics
Shanghai Huali Microelectronics
Wyeth Pharmaceutical (Suzhou) Co., LTD
Jiangsu Yangzijiang Pharmaceutical Group
Wuhan Institute of Biology
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2023/05/24

Wechat

Official website

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