



WINCELL INSULATION CO.,LTD.

Add: No. 18-28, Tongjiang Road, Taixin Jiangsu.PRC
Tel: +86-523-8759 1100
Fax: +86-523-8759 8728
E-mail: insulation@wincellchina.com
Http://www.wincellchina.com

ADVANCED INSULATION MATERIALS LEADER
400 887 1300



Wincell Wechat



Wincell Web

WINCELL[®]
Insulation



INSULATION MATERIALS

BETTER INSULATION UNDERSTANDING BETTER WINCELL BELIEVING

English

WINCELL EN 2015-01



Wincell Insulation Manufacturing Center

Wincell International Industrial Park

Wincell Korea Bases

WINCELL INSULATION CO.,LTD.

BETTER INSULATION UNDERSTANDING BETTER WINCELL BELIEVING

Wincell Insulation Co.,Ltd is one of the core enterprises of Josun Group, which devoted to providing the optimal solutions for insulation material customers. We have facilities of 68000m² factory, 7 insulation auto-production lines that produce 300,000.00m³ insulation materials each year. At present, our insulation brand "Wincell" has become one of the best famous brands with the highest reputation all over the world. Our insulation materials have already exported to South Korea, Brazil, Iran, Taiwan, Chile, and Kazakhstan, the United States, Australia, India, Argentina, Salvador, Russia, Mexico, Indonesia, New Zealand, Dubai, Panama, Lebanon, Iraq, Mangladesh, Philippines,etc.

Our new industry zone Zhaosheng International Industry Zone with the land of 400000 SQM- has been built and had started operation from 2012, which has become the biggest manufacturing base of insulation material in South East Asia.

WINCELL INTERNATIONAL APPROVAL



FM

KS

ISO9001

UL

Greenguard



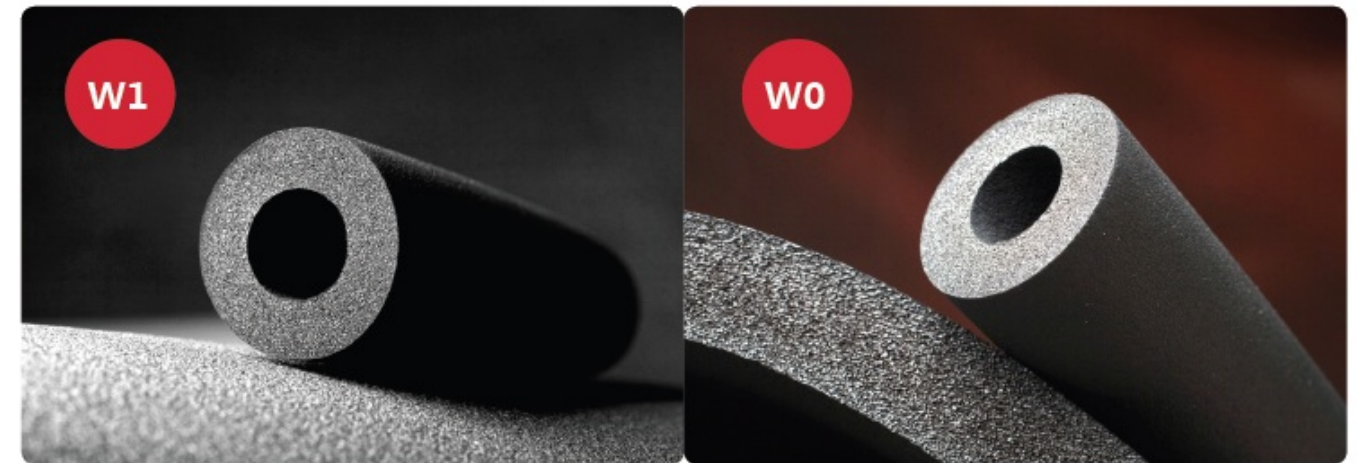
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CCS



Class1 & Class0 Testing Report



"Wincell Class1" W1

Based on the NBR, the Wincell Class1 Insulation uses the advanced "Gel Foaming" Technology, to form the completely closed foam structure, which has good performance of low thermal conductivity, excellent resistant of water vapor and fire performance. There are two kinds of products—tube and sheet. It is easy to install, safe and environmental protection. The insulation materials are suitable for the water pipe and air pipe in HVAC system, cooling and heating equipments, hot water pipe, to guarantee the tightness of the whole system.

"Wincell Class0" W0

Based on the NBR, the Wincell Class0 Insulation uses the advanced "Gel Foaming" Technology, to form the completely closed foam structure. It has passed the test of BS476 Part6 / Prt7, getting the BS certification. The unique raw materials promote good fire performance with low smoke and safe prosperities.

TECHNICAL PERFORMANCE OF W1/W0

Physical Properties	Wincell Product W1	Wincell Product W0	
Cell Structure	Closed cell	Closed cell	
Density Kg/m ³	55±5	55±5	
Thermal Conductivity	Mean Temp		
BTU.in/ft ² .hr.oF	-4°F(-20°C)	32°F(0°C)	104°F(40°C)
W/(m·k)	K-value		
	0.22(0.030)	0.23(0.032)	0.26(0.037)
Water Vapor Permeability g/(m·s·Pa)	1.96x10 ⁻¹¹	1.3x10 ⁻¹¹	
Moisture Resistance(μ value)	μ ≥ 10000	μ ≥ 15000	
	V-0	V-0	
	25/50	25/50	
Flammability Smoke Density	Self Extinguishing	Self Extinguishing	
	Class 1	Class 0	
	Pass	Pass	
Water absorption(weight %)	≤ 5	≤ 5	
Flexibility	Excellent	Excellent	
Ozone Resistance	No crack	No crack	
Serviec Temperature	-70°F to 257°F (-57°C to +125°C)	-70°F to 257°F (-57°C to +125°C)	

Wincell WF compound insulation is based on WFA metal compound layer, WFC compound layer and WFB compound layer which perfectly combined with Wincell insulation materials by special technology, to improve completely all of the performance of rubber insulation. It has perfect fire performance, resistant of water vapor penetration, strong tear resistant properties and anti-aging performance.

Wincell compound insulation has already become the ideal insulation materials in many filed. It can meet the application demands of food production plant, pharmacy factory, electronic and clean rooms.

TECHNICAL PERFORMANCE OF WFA/WFC/WFB

WFA

Physical Properties		Wincell			Test Method
Cell Structure		Closed cell			
Density Kg/m ³		55±5			ASTM D 1667
Thermal Conductivity	Mean Temp	-4°F(-20°C)	32°F(0°C)	104°F(40°C)	ASTM C177 & C518
BTU.in/ft ² .hr.oF	W/(m.k)	K-value	0.22(0.030)	0.23(0.032)	
Water Vapor Permeability g/(m.s-Pa)		9.8x10 ⁻¹²			ASTM E96
Moisture Resistance(μ value)		μ ≥ 20000			DIN 52615
		V-0			UL-94
		25/50			ASTM E84
Flammability Smoke Density		Self Extinguishing			ASTM D635
		Class 1			BS 476:Part 7 & Part 6
		Pass			IMO FTPC Annex 1 Part 5
Water absorption(weight %)		≤ 5			ASTM D1056
Flexibility		Excellent			
Ozone Resistance		No crack			ASTM D1171
Serviec Temperature		-70°F to 257°F (-57°C to +125°C)			

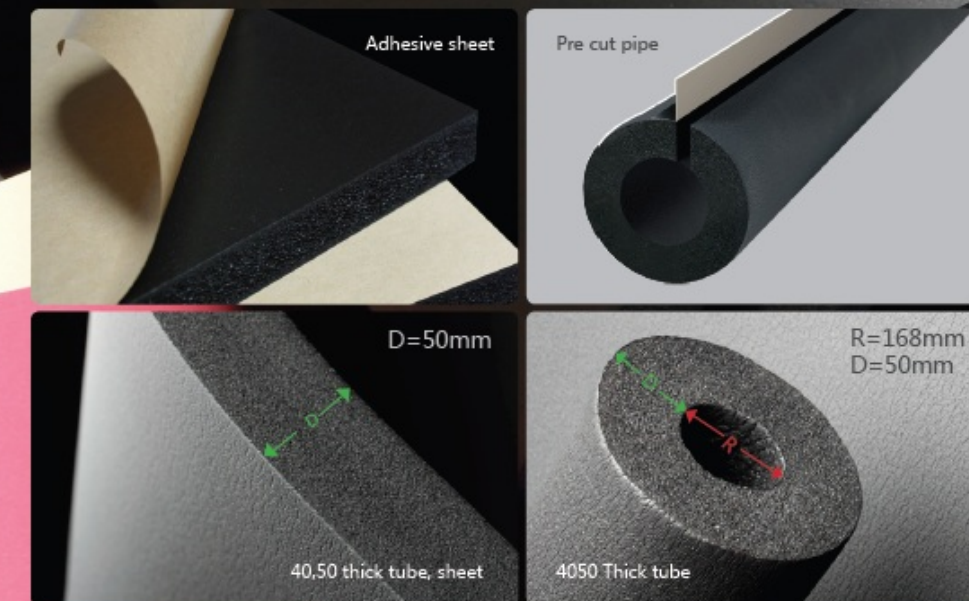


WINCELL COLOURFUL INSULATION MATERIALS



Any colour NBR materials can be customized

OTHER PRODUCTS



ACCESSORIES



WINCELL®

SPECIFICATION

Better Insulation Understanding Better Wincell Believing



W1T/W0T/WFA/WFC/WFB

Pipeline Model	Model	THK	THK	THK	THK	THK	THK	
Seamless Steel Tube	Steel Tube Gal. Pipe	ID mm	6mm	9mm	13mm	15mm	20mm	25mm
1/4"	6 1/4"	06006	09006	13006	15006	20006	25006	
3/8"	DN6	10 3/8"	06010	09010	13010	15010	20010	25010
1/2"		13 1/2"	06013	09013	13013	15013	20013	25013
15	5/8" DN8	16 5/8"	06016	09016	13016	15016	20016	25016
		19 3/4"	06019	09019	13019	15019	20019	25019
22	7/8" DN15	22 7/8"	06022	09022	13022	15022	20022	25022
25	1"	25 1"	06025	09025	13025	15025	20025	25025
28	1-1/8" DN20	28 1-1/8"	09028	13028	15028	20028	25028	
32	1-1/4"	32 1-1/4"	09032	13032	15032	20032	25032	
	1-3/8" DN25	35 1-3/8"	09035	13035	15035	20035	25035	
38	1-1/2"	38 1-1/2"	09038	13038	15038	20038	25038	
	1-5/8" DN32	40 1-3/8"	09043	13043	15043	20043	25043	
45	1-3/4"	43 1-5/8"	09045	13045	15045	20045	25045	
	1-7/8" DN40	45 1-3/4"	09048	13048	15048	20048	25048	
	2-1/8"	48 1-7/8"	09054	13054	15054	20054	25054	
57	2-1/4"	54 2-1/8"	09057	13057	15057	20057	25057	
	2-3/8" DN50	57 2-1/4"	09060	13060	15060	20060	25060	
		60 2-3/8"	09067	13067	15067	20067	25067	
76	DN70	67	09076	13076	15076	20076	25076	
89	DN80	76 2-5/8"	09089	13089	15089	20089	25089	
108		80 3-1/4"	09108	13108	15108	20108	25108	
	DN100	85 3-3/8"				20114	25114	
133		89				20133	25133	
	DN125	108				20140	25140	
159		115 4-5/8"				20159	25159	
	DN150	165				20168	25168	

• Tips: Red models should be longer lead time

W1S (WINCELL CLASS 1) SHEET MODELS

Spec	Thickness	Length	Width	Spec	Thickness	Length	Width	Spec	Thickness	Length	Width
W1S6	6mm	20m	1.4m	W0S6	6mm	20m	1.22m	WFA/C/B 10	10mm	2m	1.2m
W1S10	10mm	20m	1.4m	W0S10	10mm	20m	1.22m	WFA/C/B 13	13mm	2m	1.2m
W1S13	13mm	15m	1.4m	W0S13	13mm	15m	1.22m	WFA/C/B 15	15mm	2m	1.2m
W1S15	15mm	15m	1.4m	W0S15	15mm	15m	1.22m	WFA/C/B 19	19mm	2m	1.2m
W1S19	19mm	10m	1.4m	W0S19	19mm	10m	1.22m	WFA/C/B 20	20mm	2m	1.2m
W1S20	20mm	10m	1.4m	W0S20	20mm	10m	1.22m	WFA/C/B 25	25mm	2m	1.2m
W1S25	25mm	10m	1.4m	W0S25	25mm	10m	1.22m	WFA/C/B 30	30mm	2m	1.2m
W1S30	30mm	8m	1.4m	W0S30	30mm	8m	1.22m	WFA/C/B 32	32mm	2m	1.2m
W1S32	32mm	8m	1.4m	W0S32	32mm	8m	1.22m	WFA/C/B 35	35mm	2m	1.0m
W1S35	35mm	5m	1.0m	W0S35	35mm	5m	1.0m	WFA/C/B 38	38mm	2m	1.0m
W1S38	38mm	5m	1.0m	W0S38	38mm	5m	1.0m	WFA/C/B 40	40mm	2m	1.0m
W1S40	40mm	5m	1.0m	W0S40	40mm	5m	1.0m	WFA/C/B 50	50mm	2m	1.0m
W1S50	50mm	2m	1.0m	W0S50	50mm	2m	1.0m				

• For special specifications, please contact our sales department.

WINCELL®

SPECIFICATION

Better Insulation Understanding Better Wincell Believing



W1T/W0T/WFA/WFC/WFB

Pipeline Model	Model	THK	THK	THK	THK	THK	THK	
Seamless Steel Tube	Steel Tube Gal. Pipe	ID mm	30mm	32mm	35mm	38mm	40mm	50mm
1/4"	6 1/4"	30010						
3/8"	DN6	10 3/8"	30013	32013				
1/2"		13 1/2"	30016	32016				
15	5/8" DN8	16 5/8"	30019	32019				
		19 3/4"	30022	32022				
22	7/8" DN15	22 7/8"	30025	32025				
25	1"	25 1"	30028	32028	35028			
28	1-1/8" DN20	28 1-1/8"	30032	32032	35032			
32	1-1/4"	32 1-1/4"	30035	32035	35035			
	1-3/8" DN25	35 1-3/8"	30038	32038	35038			
38	1-1/2"	38 1-1/2"	30043	32043	35043	38043	40043	50043
	1-5/8" DN32	40 1-3/8"	30045	32045	35045	38045	40045	50045
45	1-3/4"	43 1-5/8"	30048	32048	35048	38048	40048	50048
	1-7/8" DN40	45 1-3/4"	30054	32054	35054	38054	40054	50054
	2-1/8"	48 1-7/8"	30057	32057	35057	38057	40057	50057
57	2-1/4"	54 2-1/8"	30060	32060	35060	38060	40060	50060
	2-3/8" DN50	57 2-1/4"	30067	32067	35067	38067	40067	50067
		60 2-3/8"	30076	32076	35076	38076	40076	50076
76	DN70	67	30089	32089	35089	38089	40089	50089
89	DN80	76 2-5/8"	30108	32108	35108	38108	40108	50108
108		80 3-1/4"	30114	32114	35114	38114	40114	50114
	DN100	85 3-3/8"	30133	32133	35133	38133	40133	50133
133		89	30140	32140	35140	38140	40140	50140
	DN125	108	30159	32159	35159	38159	40159	50159
159		115 4-5/8"	30168	32168	35168	38168	40168	50168
	DN150	165						

• Tips: Red models should be longer lead time

WINCELL STANDARD PACKAGES



Wincell Standard Tube Carton Wincell Standard Plastic Bag Wincell WFA/C/B Sheet Carton