ROCK WOOL Wire-meshed Blanket

ROCK WOOL Wire-meshed Blanket(RKW series) is made of rock wool blanket and galvanized wire mesh or stainless steel wire mesh stitched together by Galvanized barbed wire or stainless steel. It is flexible, good thermal insulation and easy handing. It can be customized as water repellent, low water leachable chloride content and stitch with aluminum foil blanket.

Standard Specification

Product Type	RKW80		RKW100		RKW120	
Nominal Density, kg/m^3	80		100		120	
Width, mm	600,900		600,900		600,900	
Thickness, mm	25~50	60~100	25~50	60~100	25~50	60~100
Length, mm	5000	3000	5000	3000	5000	3000

Other size or density may be available on request

Main Properties and Technical Date

Properties		RKW80	RKW100	RKW120	Unit	Standard
Thermal Conductivity	50℃	≤0.038	≤0.038	≤0.038	W/(m•K)	GB/T 10295 ASTM C518 ASTM C177
	100℃	≤0.047	≤0.045	≤0.045		
	150℃	≤0.058	≤0.056	≤0.055		
	200℃	≤0.071	≤0.067	≤0.064		
	250℃	≤0.085	≤0.080	≤0.074		
	300℃	≤0.099	≤0.095	≤0.090		
Max Service Temperature		650	750	750	℃	ASTM C411
Thermal Load contraction Temperature		600	650	650	℃	GB/T 11835
Linear Shrinkage		≤2	≤2	≤2	%	ASTM C356
Water vapor sorption*		≤0.02	≤0.02	≤0.02	vol%	ASTM C1104M
Water repellent*		99	99	99	%	GB/T 10299
Water leachable chloride		≤10	≤10	≤10	PPM	ASTM C871

content**					
Reaction to fire	Non-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25			---	GB 8624 ASTM E84
Organic Content	≤1.5	≤1.5	≤1.5	%	GB11835
Environment	Asbestos free, no CFCs, HCFCs, HFCs			---	---
Corrosiveness	Corrosion Free			---	ASTM C665

*Refer to water repellent products only;

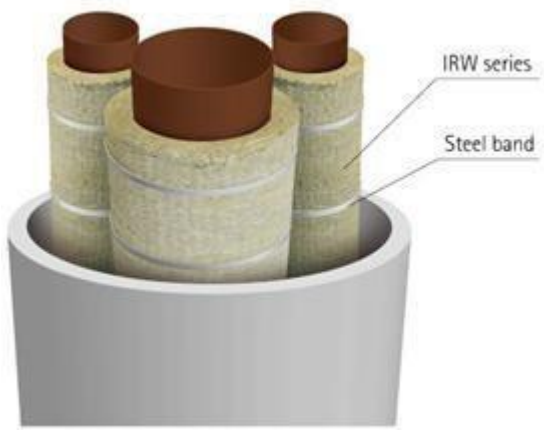
**Refer to low water leachable content products used for austenitics stainless steel, meet ASTM795's requirements.

Other properties meet GB/T 11835-2007 or ASTMC612's requirements.

Product Application

It is suitable for thermal and acoustic insulation of industrial applications reaching high temperatures, such as industry pipe line, boiler walls, furnace, smoke ducts for power plant, refinery plant, and chemical and oil plant etc.

For special shape, pipe insulation



Cut the RKW series products to required length and wrapped around the pipe and fixed tightly at joints. To avoid thermal bridges, in case of multi-layers insulation, the mats should be secured tightly at all lateral and longitudinal joints of each layer, and the joints of two layers should be staggered at about 150 mm;

The RKW series products are fixed with pins and washers, and the pins length should be 15mm bigger than the whole insulation thickness, and the pins should be bent over the washer to keep RKW series against the tank Wall

ROCK WOOL Industrial Blanke

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Rock wool Blanket (RKB series) is a good flexible rolle dproduct, mainly made from natural rock such as basalt an ddolomite. On request, the rock wool blanket can be wat errepellent, and also can be faced with aluminum foil, gla sstissue or glass cloth on one side or both sides.

Standard Specification

Product Type	RKB60			RKB80			RKB100	
Nominal density,kg/m^3	60			80			100	
Width, mm	600,900			600,900			600,900	
Thickness, mm	50	60	75	50	60	75	40	50
Length, mm	5000	4000	3000	5000	4000	3000	5000	5000

Other size or density maybe available on request

Main Properties and Technical Date

Properties		RKB60	RKB80	RKB100	Unit	Standard
	50℃	≤0.038	≤0.038	≤0.038	W/(m•K)	GB/T 10295

Thermal Conductivity	100℃	≤0.047	≤0.045	≤0.045		ASTM C518 ASTM C177
	150℃	≤0.058	≤0.056	≤0.055		
	200℃	≤0.071	≤0.067	≤0.064		
	250℃	≤0.085	≤0.080	≤0.074		
	300℃	≤0.099	≤0.095	≤0.090		
Max Service Temperature		650	750	750	℃	ASTM C411
Thermal Load contraction Temperature		600	650	650	℃	GB/T 11835-2007
Linear Shrinkage		≤2	≤2	≤2	%	ASTM C356
Water vapor sorption*		≤0.02	≤0.02	≤0.02	vol%	ASTM C1104M GB/T 5480.7
Water repellent*		99	99	99	%	GB/T 10299
Water leachable chloride content**		≤10	≤10	≤10	PPM	ASTM C871
Reaction to fire		Non-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25			---	GB 8624 ASTM E84 ASTM E136
Organic Content		≤1.5	≤1.5	≤1.5	%	GB11835-2007
Environment		Asbestos free, no CFCs, HCFCs, HFCs			---	---
Corrosiveness		Corrosion Free			--	ASTM C665

*Refer to water repellent products only;

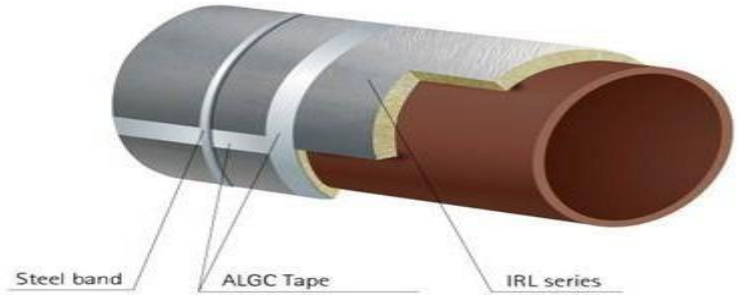
**Refer to low water leachable content products used for austenitic stainless steel, meet ASTM795's requirements.

Other properties meet GB/T 11835-2007 or ASTMC612's requirements.

Product Application

ROCK WOOL industrial blanket are mainly used as insulation agent in industry. Inindustry field, rock wool blanket is suitable for thermal insulation, noise reducti onand fire resistance in uneven surfaces, vessels, tank walls and duct of power pla nt,petrochemical plant etc.

For Pipe Insulation



The blankets are secured with two steel banding at about 100 mm from the lateral joints and should be covered with profiled aluminum sheet to protect them from mechanical or weather damage.

Neighboring blankets joints should be staggered, and all of the joints of longitudinal and latitudinal should be sealed with tape to reduce thermal bridge.

ROCK WOOL Industrial Board

ROCK WOOL Industrial Board (RK series) is a preformed board with certai nstrength, good thermal and chemical stability and durability, also has very goo dperformance on thermal, acoustic insulation. The fire classifications and reach Cla ssA 1. According to different applications and requirements, it can be customized aswater repellent, low water leachable chloride content and aluminum glass clo th(ALGC) faced on one side or both sides.

Standard Specification

Product Type	RK60	RK80	RK100	RK120	RK150
Nominal density,kg/m^3	60	80	100	120	150
Thickness, mm	40~150	25~150	25~150	25~120	25~100
LxW*, mm	1200*600				

***Other size or density maybe available on request**

Main Properties and Technical Date

Properties		RK60	RK80	RK100	RK120	RK150	Unit	Standard
Thermal Conductivity	50℃	≤0.040	≤0.038	≤0.038	≤0.038	≤0.038	W/(m•K)	GB/T 10295 ASTM C518 ASTM C177
	100℃	≤0.046	≤0.045	≤0.045	≤0.045	≤0.045		
	150℃	≤0.060	≤0.058	≤0.056	≤0.055	≤0.055		
	200℃	≤0.077	≤0.071	≤0.067	≤0.064	≤0.062		
	250℃	≤0.095	≤0.085	≤0.080	≤0.074	≤0.070		
	300℃	≤0.120	≤0.099	≤0.095	≤0.090	≤0.085		
Max Service Temperature		450	650	750	750	750	℃	ASTM C411
		Facing Materials:80						
Thermal Load contraction Temperature		400	600	650	650	650	℃	GB/T 11835
Linear Shrinkage		≤2	≤2	≤2	≤2	≤2	%	ASTM C356
Water vapor sorption*		≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	vol%	ASTM C1104M GB/T 5480.7

Water repellent*	≥99	≥99	≥99	≥99	≥99	%	GB/T 10299
Water leachable chloride content**	≤10	≤10	≤10	≤10	≤10	PPM	ASTM C871
Reaction to fire	Non-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25					---	GB 8624 ASTM E84 ASTM E136
Organic Content	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	%	GB11835
Environment	Asbestos free, no CFCs, HCFCs, HFCs					---	---
Corrosiveness	Corrosion Free					--	ASTM C665

*Refer to water repellent products only;

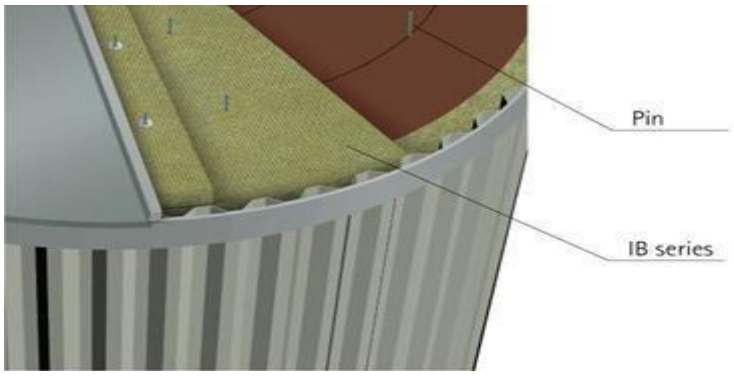
**Refer to low water leachable content products used for austenitic stainless steel, meet ASTM795's requirements.

Other properties meet GB/T 11835-2007 or ASTMC612's requirements.

Products Application

ROCK WOOL industrial boards are widely used on industry furnace, boilers, oven, big diameter pipelines, storage tanks and equipment for thermal, fire proof, acoustic insulation.

For big tank insulation



To avoid thermal bridge, the two layers of RK series products should be secured tightly at all lateral and longitudinal joints of each layer, and the joints of two layers should be staggered at about 150 mm;

The RK series products should be fixed with pin and wash, and the pins length should be 15 mm bigger than the whole insulation thickness, and the pins should be bent over the washer to keep RK series products against the tank wall.

ROCK WOOL Industrial Pipe Section

ROCK WOOL Industrial Pipe Section (RP series) is made of rock wool fiber, preformed through some mould and cured by high temperature. For easy installation, the pipe section is split in one side with a joint cutting on the opposite side along with the axis of the pipe.It makes pipe section tightly fix with pipeline. It makes pipe section can be polished to make the consisted and exact insulation thickness in all directions or faced with aluminium glass cloth(ALGC).

Standard Specification

Nominal Diameter		ID	Thickness, mm										
mm	(“)	mm	25	30	40	50	60	70	80	90	100	120	150
15	1/2	22	●	●	●	●							
20	3/4	27	●	●	●	●	●	●	●				
25	1	34	●	●	●	●	●	●	●				
32	1-1/4	43	●	●	●	●	●	●	●	●	●		
40	1-1/2	48	●	●	●	●	●	●	●	●	●		

Production Information Sheet

50	2	60	●	●	●	●	●	●	●	●	●		
65	2-1/2	76	●	●	●	●	●	●	●	●	●		
80	3	89	●	●	●	●	●	●	●	●	●		
90	3-1/2	108	●	●	●	●	●	●	●	●	●		
100	4	114	●	●	●	●	●	●	●	●	●	●	
125	5	140		●	●	●	●	●	●	●	●	●	●
150	6	169		●	●	●	●	●	●	●	●	●	●
200	8	219			●	●	●	●	●	●	●	●	●
250	10	273			●	●	●	●	●	●	●	●	●
300	12	325			●	●	●	●	●	●	●	●	●
350	14	356				●	●	●	●	●	●	●	●
375	15	381				●	●	●	●	●	●	●	●
400	16	406				●	●	●	●	●	●	●	●
450	18	456				●	●	●	●	●	●	●	●
475	19	483						●	●	●	●	●	●
500	20	508						●	●	●	●	●	●
550	22	558							●	●	●	●	●
600	24	610							●	●	●	●	●

*Other size or density maybe available on request

Properties		RP110	RP120	RP140	Unit	Standard
Thermal Conductivity	50℃	≤0.039	≤0.039	≤0.039	W/(m•K)	GB/T 10295 ASTM C518 ASTM C177
	100℃	≤0.044	≤0.044	≤0.044		
	150℃	≤0.056	≤0.052	≤0.052		
	200℃	≤0.072	≤0.063	≤0.061		
	250℃	≤0.084	≤0.072	≤0.070		
	300℃	≤0.095	≤0.081	≤0.078		
Max Service Temperature		450	650	650	℃	ASTM C411
		Facing Materials:80				

Thermal Load				℃	GB/T 11835

contraction Temperature	400	600	600		
Linear Shrinkage	≤2	≤2	≤2	%	ASTM C356
Water vapor sorption*	≤0.02	≤0.02	≤0.02	vol%	ASTM C1104M GB/T 5480.7
Water repellent*	≥99	≥99	≥99	%	GB/T 10299
Water leachable chloride content**	≤10	≤10	≤10	PPM	ASTM C871
Reaction to fire	Non-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25			---	GB 8624 ASTM E84 ASTM E136
Organic Content	≤4.0	≤4.0	≤4.0	%	GB11835
Environment	Asbestos free, no CFCs, HCFCs, HFCs			---	---
Corrosiveness	Corrosion Free			--	ASTM C665

Main Properties and Technical Date

*Refer to water repellent products only;

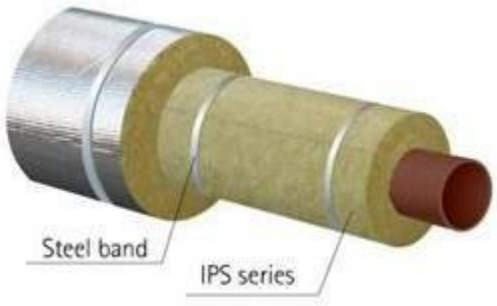
**Refer to low water leachable content products used for austenitic stainless steel, meet ASTM795's requirements.

Other properties meet GB/T 11835-2007 or ASTMC612's requirements.

Products Application

ROCK WOOL Pipe Section main application is pipe line insulation in fire power plant, nuclear power plant or other industry process for thermal and acoustic insulation, human protection, avoid or decrease the condensation, to improve the energy efficiency.

For pipe insulation



The joints in longitudinal and latitudal directions of two layers shall be staggered, overlap of 150mm in longitudinal is recommended.

Each layer should be banded with three steel bands per pipe section, two for both ends and one in the middle, the end band will be about 100mm from the edge.



Production Information Sheet

ROCK WOOL Industrial Granulated Wool

Rock wool Industrial Granulated Wool(RW series) is a loose and granular product made of mineral wool fiber. It is mainly used for thermal insulation projects of irregular space, voids, seams, fire-protection spraying coating of steel structure and manufacturing mineral wool acoustic absorption ceiling board.

Main Properties and Technical Data

Product Type	RW				Unit	Standard
	T	*	T	*		
Thermal Conductivity	-180℃	≤0.015	50℃	≤0.040	W/(m•K)	GB/T 10295 ASTM C518 ASTM C177
	-140℃	≤0.018	100℃	≤0.049		
	-100℃	≤0.022	150℃	≤0.057		
	-60℃	≤0.027	200℃	≤0.067		
	-20℃	≤0.033	250℃	≤0.075		
	20℃	≤0.039	300℃	≤0.091		
Max Service Temperature	650				℃	ASTM C411
Reaction to Fire	Non-combustible, Class A1 Surface burningcharacteristics: Smoke Development≤50; Flame Spread≤25				--	GB 8624 ASTM E84 ASTM E136
Organic Content	≤0.3				%	GB11835
Environment	Asbestos free, no CFCs, HCFCs, HFCs				---	---
Corrosiveness	Corrosion Free				--	ASTM C665

Other properties meet GB/T 11835-2007 requirements.

Product Application

RW is mainly used for filling irregular space and apertures in thermal insulation structure, spraying for fire proof of steel structure building and tunnel, manufacturing sound absorption ceiling board, also can be used for cold box of air separation equipment insulation.

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