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	RKV	V80	RKW	/100	RKW120		
Nominal Density, kg/m³	8	60	10	00	17	20	
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

Prop	erties	RKW80	RKW100	RKW120	Unit	Standard
	50 ℃	≤0.038	≤0.038	≤0.038		
	100 ℃	≤0.047	≤0.045	≤0.045		GB/T 10295
Thormal	150 ℃	≤0.058	≤0.056	≤0.055	\\//mak\	ASTM C518
	Thermal 200°C		≤0.067	0.067 ≤0.064 W/(m•k		ASTM C177
	ty 250°C		≤0.080	≤0.074		
ty	300℃		≤0.095	≤0.090		
Max S Tempe	ervice erature	650	750	750	$^{\circ}$	ASTM C411
	al Load Temperature	600	650	650	$^{\circ}$	GB/T 11835
Linear S	hrinkage	≤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 leach	able chloride	≤10	≤10	≤10	PPM	ASTM C871

content**						
Reaction to fire		Non-combust face burning cha evelopment≤50;	aracteris		GB 8624 ASTM E84	
Organic Content	≤1 .5	≤1.5		≤1.5	%	GB11835
Environment	As	bestos free, no	CFCs, HO			
Corrosiveness		Corrosi	on Free			ASTM C665

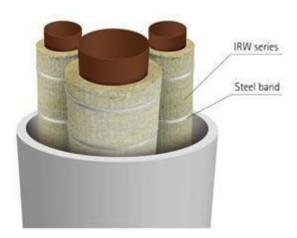
^{*}Refer to water repellent products only;

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

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





ROCK WOOL Industrial Blanke



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		60			80	100			
density,kg/m³						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

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

100 ℃							
100 C	20	0.047	≤0.	045	≤0.045		ASTM C518
150 ℃	≤(0.058	≤0.	056	≤0.055		ASTM C177
200 ℃	≤(0.071	≤0.	067	≤0.064		
250 ℃	≤(0.085	≤0.	080	≤0.074		
300 ℃	≤(0.099	≤0.	095	≤0.090		
perature	(650	75	50	750	$^{\circ}$	ASTM C411
ntraction ire		600	65	50	650	$^{\circ}$ C	GB/T 11835-2007
age		≤2	<u> </u>	2	≤2	%	ASTM C356
							ASTM
rption*	≤	0.02	≤0	.02	≤0.02	vol%	C1104M
							GB/T 5480.7
ent*		99	9	9	99	%	GB/T 10299
chloride *	≤10 ≤10 ≤10		≤10	PPM	ASTM C871		
fire				ics:Smoke		GB 8624 ASTM E84 ASTM E136	
tent	≤1. 5 ≤1.5		5		≤1.5	%	GB11835-200 7
nt	Asbestos free, no CFCs, HCFCs, HFCs			Cs, HFCs			
ess		Coi	rrosion	Free			ASTM C665
r t	200°C 250°C 300°C perature ntraction re age rption* chloride fire tent tent	200°C ≤0 250°C ≤0 300°C ≤0 perature perature age pption* ≤ cent* chloride fire Surfa Deve tent ≤1. 5 nt Asb	200°C ≤0.071 250°C ≤0.085 300°C ≤0.099 perature 650 ntraction 600 re age ≤2 ent* 99 chloride ≤10 Non-comfire Surface burnin Development≤ ≤1. sent ≤1. fire Asbestos free	200°C ≤0.071 ≤0.085 250°C ≤0.085 ≤0.099 300°C ≤0.099 ≤0.099 perature 650 75 perature 600 65 perature 600 65 perature 600 65 perature ≤0.02 ≤0 pert* 99 9 chloride ≤10 ≤2 fire Non-combustible Surface burning charale pevelopment≤50; Fla ≤1. ≤5. perature ≤1. ≤1.5 perature ≤2. ≤2.	200°C ≤0.071 ≤0.067 250°C ≤0.085 ≤0.080 300°C ≤0.099 ≤0.095 perature 650 750 perature 600 650 perature 600 650 age ≤2 ≤2 ent* 99 99 chloride ≤10 ≤10 fire Surface burning characterist Development≤50; Flame Spi pent ≤1. ≤1.5 pent ≤1.5 ≤1.5 pent Asbestos free, no CFCs, HCF	200°C ≤0.071 ≤0.067 ≤0.064 250°C ≤0.085 ≤0.080 ≤0.074 300°C ≤0.099 ≤0.095 ≤0.090 perature 650 750 750 perature 600 650 650 perature 600 650 650 perature ≤2 ≤2 ≤2 sage ≤2 ≤2 ≤2 sent* 99 99 99 chloride ≤10 ≤10 ≤10 Mon-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25 pent ≤1. ≤1.5 ≤1.5 sent ≤1.5 ≤1.5 ≤1.5	200°C ≤0.071 ≤0.067 ≤0.064 250°C ≤0.085 ≤0.080 ≤0.090 300°C ≤0.099 ≤0.095 ≤0.090 perature 650 750 750 °C ntraction re 600 650 650 °C age ≤2 ≤2 ≤2 % eption* ≤0.02 ≤0.02 vol% ent* 99 99 99 % chloride ≤10 ≤10 ≤10 PPM Non-combustible, Class A1 Surface burning characteristics:Smoke Development≤50; Flame Spread≤25 ent ≤1. ≤1.5 ≤1.5 % nt Asbestos free, no CFCs, HCFCs, HFCs

^{*}Refer to water repellent products only;

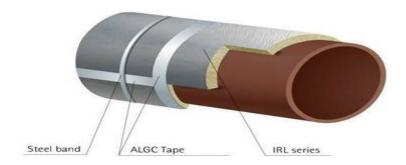
Other properties meet GB/T 11835-2007 or ASTMC612's requirements.

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

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



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 certain nstrength, good thermal and chemical stability and durability, also has very good performance on thermal, acoustic insulation. The fire classifications and reach ClassA 1. According to different applications and requirements, it can be customized aswater repellent, low water leachable chloride content and aluminum glass cloth(ALGC) faced on one side or both sides.



Standard Specification

Product Type	RK60	RK80	RK100	RK120	RK150
Nominal density,kg/m³	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

Prope	rties	RK60	RK80	RK100	RK120	RK150	Unit	Standard
	50 ℃	≤0.040	≤0.038	≤0.038	≤0.038	≤0.038		GB/T
	100 ℃	≤0.046	≤0.045	≤0.045	≤0.045	≤0.045		10295
Thermal	150 ℃	≤0.060	≤0.058	≤0.056	≤0.055	≤0.055	W/(m•	ASTM
Conducti	200 ℃	≤0.077	≤0.071	≤0.067	≤0.064	≤0.062	K)	C518
vity	250 ℃	≤0.095	≤0.085	≤0.080	≤0.074	≤0.070	K)	ASTM
	300℃	≤0.120	≤0.099	≤0.095	≤0.090	≤0.085		C177
Max Se	ervice	450	650	750	750	750	$^{\circ}$	ASTM
Tempe	rature		Facin	C	C411			
Therma contra Tempe	ction	400	600	650	650	650	$^{\circ}\! C$	GB/T 11835
Linear Sh	rinkage	≤2	≤2	≤2	≤2	≤2	%	ASTM C356
Water sorpti	•	≤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
Water repellent*	299	299	299	299	299	70	10299
Water leachable							ASTM
chloride content**	≤10	≤10	≤10	≤10	≤10	PPM	C871
cilionae content							
							GB 8624
		Non-con	nbustible, C	lass A1			ASTM E84
Reaction to fire	Sur	face burnin	ig characte	ristics:Smo	oke		ASTM
	Dev	elopment:	≤50; Flame	Spread≤2	5		E136
Organic Content	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	%	GB11835
Environment	۸۵	hostos froc	e, no CFCs, I	اردرد الد	Cc		
Liivii oiiiiileiit	AS	Desios II ee	CS				
				ASTM			
Corrosiveness		Co			C665		

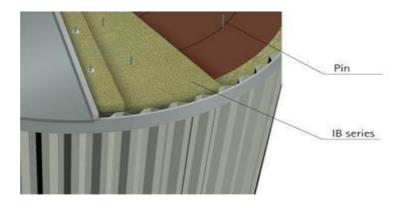
^{*}Refer to water repellent products only;

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;

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

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					Th	ickness,	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	•	•	•	•	•	•	•	•	•		

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

Proper	ties	RP110	RP120	RP140	Unit	Standard
	50 ℃	≤0.039	≤0.039	≤0.039		
	100 ℃	≤0.044	≤0.044	≤0.044		
	150 ℃	≤0.056	≤0.052	≤0.052	W/(m	GB/T 10295 ASTM C518
Thermal	200 ℃	≤0.072	≤0.063	≤0.061	• K)	ASTM C177
Conductivit y	250 ℃	≤0.084	≤0.072	≤0.070		
	300℃	≤0.095	≤0.081	≤0.078		
Max Sei	rvice	450	650	650	- °C	ACTN 4 C 4 1 1
Tempera	ature	Fa	cing Materials:80		ASTM C411	

https://www.rosetexwool.com

Thermal Load				$^{\circ}\mathbb{C}$	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 f				
Corrosiveness			ASTM C665		

Main Properties and Technical Date

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

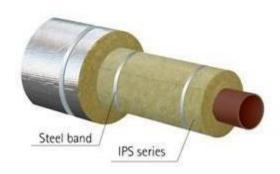
Products Application

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.

^{*}Refer to water repellent products only;

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

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.







ROCK WOOL Industrial Granulated Wool



Rock wool Industrial Granulated Wo ol(RW series) is a loose and granular productmade of mineral wool fiber. It is mainly us edfor thermal insulation projects of irregularspace, voids, seams, fire-protection sprayingcoating of steel structure and manufacturingmineral wool acoustic absorption ceilingboard.

Main Properties and Technical Data

Product Type			Unit	Standard		
	Т	*	Т	*		
	- 180 ℃	≤0.015	50 ℃	≤0.040		
	- 140 ℃	≤0.018	100 ℃	≤0.049		CD/T
	- 100 ℃	≤0.022	150 ℃	≤0.057		GB/T
Thermal	- 60 ℃	≤0.027	200 ℃	≤0.067		10295 ASTM C518
Conductivity	- 20 ℃	≤0.033	250 ℃	≤0.075	W/(m•K)	ASTM C518 ASTM C177
	20 ℃	≤0.039	300 ℃	≤0.091		ASTIVI C177
Max Service Temperature			${\mathbb C}$	ASTM C411		
Reaction to Fire		Non-combu Surface burni Smoke Dev Flame S		GB 8624 ASTM E84 ASTM E136		
Organic Content		\$	%	GB11835		
Environment	Asl	bestos free, n				
Corrosiveness		Corro		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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