rokacell INSULATION

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TECHNICAL INSULATION

CATALOGUE 2026

NB-FLEX

Official partner of ROKA-CELL

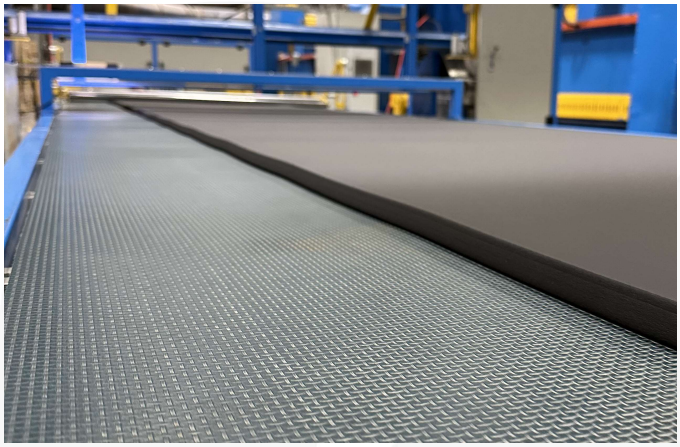
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ABOUT THE COMPANY

ROKA-CELL is a dynamically growing company specializing in the production of **ROKAFLEX** synthetic rubber thermal insulation for industrial engineering systems.





ROKA-CELL was founded in 2021 as a joint venture between **Roka Yalıtım AŞ (Istanbul, Turkey)**, a company with 20 years of experience in the sector that exports its products worldwide, including to Europe, —

— and **Aysel Inshaat (Tashkent, Uzbekistan)**, one of the most reputable, respected and experienced construction companies in Uzbekistan.





ROKA-CELL, headquartered in Tashkent, has the largest and most modern production facility in Central Asia.

ROKA-CELL is a reliable partner for mechanical installation solutions, offering the widest range of products.

APPLICATIONS



CONSTRUCTION

Foam rubber insulation plays an important role in the thermal insulation of buildings and structures. It is used to insulate pipelines, air conditioners, ventilation systems and other architectural elements.

INDUSTRIAL REFRIGERATION

Domestic cooling systems;
Industrial cooling systems;
Refrigeration units;
Chillers (liquid cooling units);
Blast freezing equipment;
Heat exchange equipment;
OEM (refrigeration equipment manufacturers).





HEALTHCARE

Some types of foam rubber have antibacterial and anti-allergenic properties, helping to create a safe and hygienic environment for patients. Foam rubber insulation plays an important role in ensuring the safety, comfort and protection of medical facilities.

INDUSTRY

Foam rubber is used to insulate pipelines, equipment, tanks and other components at industrial facilities. This insulation helps reduce heat loss and maintain the required temperature in systems.



ADVANTAGES

HIGH THERMAL INSULATION PERFORMANCE

Foam rubber technical insulation has excellent thermal insulation properties, which reduce heat loss and improve the energy efficiency of the system. This is especially important for thermal systems such as pipelines, air conditioners and refrigeration units.

LONG SERVICE LIFE

Foam rubber is highly resistant to various physical and chemical influences. It does not corrode, rot or break down when exposed to moisture, oils, acids and other aggressive media. This makes it a durable and reliable insulation material.

QUICK AND EASY INSTALLATION

Foam rubber technical insulation is highly flexible and elastic, which makes it easy to install on a wide variety of surfaces and shapes. It also has sound-insulating properties that help reduce noise and vibration.

ENVIRONMENTAL SAFETY

Foam rubber is a low-toxicity material that contains no hazardous chemicals. This means it is safe for human health and the environment.

BASIC THERMODYNAMIC CONCEPTS

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λ

THERMAL CONDUCTIVITY

The thermal conductivity coefficient (λ) is a value that characterizes the ability of a material to conduct heat. W/(m·K) (watt per metre-kelvin) is the unit of thermal conductivity (λ): it expresses the amount of heat passing in 1 s through an area of 1 m^2 of material 1 m thick at a temperature difference of 1 K (1 °C).
The lower the λ value (W/(m·K)), the better the thermal insulation properties of the material. In insulation materials, the main insulating role is played by microscopic air cavities (pores). Thermal conductivity depends on the temperature of the material, so different materials can only be compared at the same temperature.

ρ

DENSITY

Density is a physical quantity equal to the ratio of the mass of a body m to its volume V (kg/m^3). As a rule, density increases as temperature decreases, but some substances behave differently, for example water, bronze and cast iron.
The density of foam rubber insulation is in the range of 41–60 kg/m^3, and that of polyethylene foam is 27–41 kg/m^3.

μ

WATER VAPOUR DIFFUSION RESISTANCE FACTOR

The water vapour diffusion resistance factor (μ) is a dimensionless value that expresses the ratio of the vapour permeability of dry air to the vapour permeability of the material under the same conditions.
The μ-factor shows how many times better a material resists the penetration of water vapour than dry air.
The higher the μ value, the greater the resistance of the material to moisture penetration and the more stable its thermal conductivity throughout its service life.
This factor is most important for the insulation of cooling systems. A material can be considered high-quality for systems operating below ambient temperature if its μ-factor is at least 3,500. For materials used in harsh conditions, the μ-factor must be at least 7,000.

A

SOUND ABSORPTION

Sound absorption is the damping of sound vibrations through the conversion of their energy into heat. Sound insulation is used in ventilation and air-conditioning systems to reduce noise from supply, exhaust and circulation equipment.

F

FIRE SAFETY (FLAMMABILITY CLASS)

NG	non-combustible	materials that cannot burn in air
G1, G2	low-combustible	materials that can burn in air when exposed to an ignition source but cannot continue burning after it is removed
G3, G4	combustible	materials that can ignite spontaneously, or ignite when exposed to an ignition source and continue burning on their own after it is removed

WHY ROKAFLEX?

Material	λ [W/(m·K)]
Glass wool	0.033 – 0.042
Mineral wool	0.032 – 0.056
Polyethylene foam	0.032 – 0.038
Synthetic rubber foam	0.033 – 0.040
Polyurethane foam	0.030 – 0.043
Polystyrene foam	0.030 – 0.042

Material	ρ [kg/m³]
Glass wool	30 - 100
Mineral wool	35 - 100
Polyethylene foam	25 - 45
Synthetic rubber foam	41 - 60
Polyurethane foam	60 - 100
Polystyrene foam	15 - 35

Material	μ
Glass wool	2
Mineral wool	2
Polyethylene foam	2700 - 3500
Synthetic rubber foam	2000 - 8000
Polyurethane foam	16
Polystyrene foam	16

Material							
	100	100	100	100	100	100	100
Synthetic rubber foam	Sound absorption, dB						
	28	32	35	37	42	45	50

Material	Flammability
Glass wool	NG
Mineral wool	NG
Polyethylene foam	G1, G2
Synthetic rubber foam	G1
Polyurethane foam	G2
Polystyrene foam	G1

ROKAFLEX ST

ROLL SA
With self-adhesive layer

ROLL STD
Uncoated

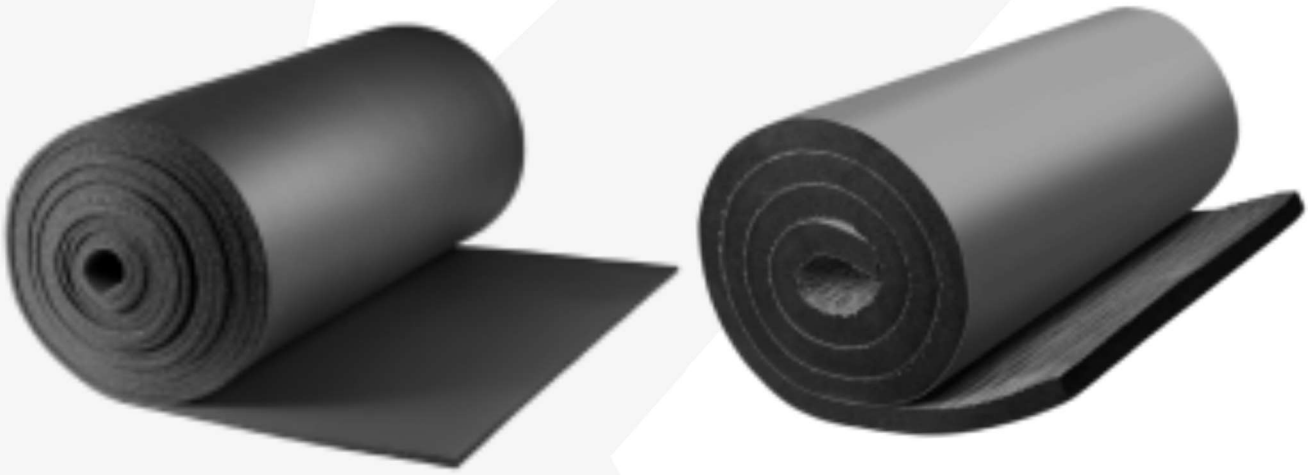
ROLL AF-SA
With aluminium foil facing
and self-adhesive layer

ROLL AF
With aluminium foil facing

ROLL AG-SA
With aluminium foil and reinforced
PVC film facing
and self-adhesive layer

ROLL AG
With aluminium foil and reinforced
PVC film facing

ROKAFLEX SHEETS / ROLLS



Thickness	Roll width 1 m m²/roll	Roll width 1.2 m m²/roll
6 mm	30	36
9 mm	20	24
13 mm	14	16.8
19 mm	10	12
25 mm	8	9.6
32 mm	6	7.2
50 mm	4	4.8

ROKAFLEX ST

TECHNICAL SPECIFICATIONS

Technical data	Unit	Rokaflex ROLL
Thermal conductivity (λ)	W/(m·K)	0.032 (–20 °C)
	W/(m·K)	0.034 (0 °C)
	W/(m·K)	0.036 (20 °C)
	W/(m·K)	0.038 (40 °C)
	W/(m·K)	0.040 (+60 °C)
Water vapour diffusion resistance		μ ≥7000
Fire classification EN 13501-1 / GOST 30244		B-s3-d0 / G1
Temperature range	°C	–200 to +110
pH		6-8
Flexibility		Excellent
Ozone resistance		Good
Closed-cell content	%	>90
Chemical resistance (oils, mineral oils)		Good
Odour		Neutral

* For SA (self-adhesive) roll material: from –40 °C to +85 °C





ROKAFLEX AL GUARD

ROKAFLEX AL GUARD is an elastomeric foam rubber roll with an adhesive backing, faced with aluminium foil and reinforced PVC film. It has low thermal conductivity and high water vapour diffusion resistance, and prevents condensation.

High performance thanks to high-quality raw materials;
Flexibility helps reduce vibration at duct joints;
High resistance to environmental conditions;
Saves installation time and labour costs;
UV resistance and high resistance to mechanical impact;



TECHNICAL SPECIFICATIONS

Parameter	Value
Thickness, µm	230
Operating temperature	−50 °C to +110 °C
Fire classification EN 13501-1 / GOST 30244	B-s3-d0 / G1
UVA resistance	2,000 hours – no change
Ozone resistance	no visible cracks
Salt spray resistance	500 hours – no change



Thickness	Roll width 1 m m²/roll	Roll width 1.2 m m²/roll
6 mm	30	36
9 mm	20	24
13 mm	14	16.8
19 mm	10	12
25 mm	8	9.6
32 mm	6	7.2
50 mm	4	4.8

ROKAFLEX ST

UNIVERSAL PIPE INSULATION





ROKAFLEX ST tubes, 2 m long

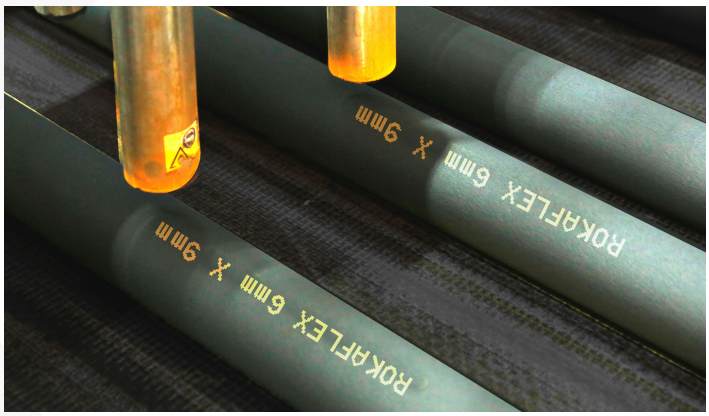
Tube inner diameter			Wall thickness					
Copper, inch	Steel, inch	mm	6 mm m/box	9 mm m/box	13 mm m/box	19 mm m/box	25 mm m/box	32 mm m/box
1/4”		6	486	342	216			
5/16”		8	432	306	198			
3/8”	1/8”	10	378	270	180			
1/2”		12	342	234	162			
5/8”		15	270	198	144			
3/4”	3/8”	18	234	180	126	72	56	
7/8”	1/2”	22	198	162	108	72	48	32
1”		25*	164	134	96	66	44	28
1 1/8”	3/4”	28	132	108	84	60	40	24
1 3/8”	1”	35	120	96	72	48	32	24
1 5/8”	1 1/4”	42	108	88	56	40	24	22
	1 1/2”	48		80	48	32	24	18
2 1/8”		54*		68	44	32	22	16
2 3/8”	2”	60		56	40	32	18	14
3”	2 1/2”	76		48	36	24	18	12
3 1/2”	3”	89		42	30	24	16	12
4 1/2”	4”	114		28	24	16	12	8

ROKAFLEX ST

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Temperature range	°C	−200 to +110
pH		6-8
Flexibility		Excellent
Ozone resistance		Good
Closed-cell content	%	>90
Chemical resistance (oils, mineral oils)		Good
Odour		Neutral









CONVERSION TABLE

For tubes with a diameter over 4 inches

Diameter conversion table		
Size, inch	DN Ø DN	Metric system
1/4''		15
1/2''	DN15	22
3/4''	DN20	28
1''	DN25	35
11/4''	DN32	42
11/2''	DN40	48
2''	DN50	60
21/2''	DN65	76
3''	DN80	89
4''	DN100	114
5''	DN125	140
6''	DN150	169
8''	DN200	219
10''	DN250	273

Diameter conversion table		
Size, inch	DN Ø DN	Metric system
12''	DN300	323
14''	DN350	398
16''	DN400	406
18''	DN450	467
20''	DN500	508
24''	DN600	610
28''	DN700	761
32''	DN800	813
36''	DN900	914
40''	DN1000	1016
44''	DN1100	1116
48''	DN1200	1219
52	DN1300	1331
56''	DN1400	1422

Diameter conversion table										
Size, inch		Wall thickness	Insulation thickness (mm)							
Inch	Metric	mm	6 mm	9 mm	13 mm	19 mm	25 mm	32 mm	40 mm	50 mm
4''	114	6	0.38	0.39	0.40	0.42	0.44	0.46	0.49	0.52
5''	140	5	0.46	0.47	0.48	0.5	0.52	0.54	0.57	0.6
6''	169	10	0.84	0.55	0.56	0.58	0.6	0.62	0.64	0.68
8''	219	12	0.71	0.72	0.73	0.75	0.77	0.79	0.82	0.85
10''	273	15	0.88	0.89	0.91	0.92	0.94	0.96	0.99	1.02
12''	323	18	1.04	1.05	1.06	1.08	1.1	1.12	1.15	1.18
14''	398	22	1.13	1.14	1.16	1.18	1.19	1.22	1.24	1.27

ROKAFLEX ACCESSORIES

ROKAFLEX RUBBER TAPE



Thickness × Width × Length	Quantity per pack
3 mm × 50 mm × 15 m	24
3 mm × 75 mm × 15 m	16
3 mm × 100 mm × 15 m	12

ROKAFLEX
reinforced rubber tapes provide a complete, reliable seal and prevent condensation between flange profiles.

SELF-ADHESIVE PVC TAPE



Thickness × Width × Length	Quantity per pack
50 mm × 25 m	48 pcs

ROKAFLEX
insulating tape is used with rubber rolls and tubes for thermal and sound insulation.

NEOPRENE GASKET TAPE



Thickness × Width × Length	Quantity per pack
5 mm × 13 mm × 10 m	80 pcs
5 mm × 15 mm × 10 m	75 pcs
5 mm × 20 mm × 10 m	50 pcs
5 mm × 25 mm × 10 m	40 pcs
5 mm × 30 mm × 10 m	33 pcs

SELF-ADHESIVE ALUMINIUM TAPE



Plain aluminium tape	Quantity per pack
50 mm × 25 m	24 pcs
75 mm × 25 m	16 pcs
100 mm × 25 m	12 pcs
Reinforced aluminium tape	**Quantity per pack**
50 mm × 25 m	24 pcs
75 mm × 25 m	16 pcs
100 mm × 25 m	12 pcs

ROKAFLEX ADHESIVE



Packaging / Can (kg)
1 kg 3 kg 15 kg

ROKAFLEX ADHESIVE
is a high-strength contact adhesive

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INSULATION

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