EDITION **2026**

K-FLEX® GENERAL CATALOGUE

PRODUCTS AND ACCESSORIES



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This catalogue supersedes all previous editions. Errors & omissions excepted.

THE COMPANY

K-FLEX® is an Italian 100% private owned manufacturing company specialised in the production of thermal and acoustic flexible elastomeric insulation materials. K-FLEX® has production facilities and subsidiary networks around the globe in order to supply their products to a worldwide customer base. Its diversified products range provides solutions for various market sectors, including building, transport, petrochemical and renewable energy. K-FLEX® is a worldwide market leader thanks to its focus on technology innovation and the quality of its products that play an essential role in energy consumption control and reduction of the greenhouse gas emission.
K-FLEX® is an example of a successful Italian company that has established itself worldwide. The company is present in 63 countries, with production facilities in all continents and more than 3000 employees. In addition, the company has commercial distribution branches, located all over the world, for the efficient and effective global distribution process of its products. The original manufacturing plant, located in Roncello (north of Milan), was founded in 1989. UNI EN ISO 9001:2015 and ISO 14001 certified, the company offers a wide range of products that ensure quality, reliability and compliance with market standards. K-FLEX® products also play a very important role in conserving the environment by improving the relationship between energy consumption and pollutant emissions, controlling energy consumption and reducing the release of greenhouse gas in the atmosphere.

THIRTY YEARS OF HISTORY: SYNONYMOUS WITH QUALITY, PROFESSIONALISM AND PASSION

THE STORY

K-FLEX® was founded in 1989 and, within 30 years, has become one of the most impressive FEF manufacturers in the world. With production plants all over the world and a widespread network of distributors, over time it has ensured a global reputation in terms of quality and services offered to meet the needs of all types of projects. Throughout its history K-FLEX® has understood the market needs by reinventing its product ranges according to the evolution of the markets and the needs of local realities.

More information on our proven experience in our **Company profile**

PLANT TIMELINE

- **K-FLEX® Foundation** *(ITALY) 1989*
- **SAGI K-FLEX®** *1995*
- **K-FLEX® USA** *2001*
- **K-FLEX® RUSSIA** *2005*
- **K-FLEX® UK** *2006*
- **K-FLEX® CHINA** *2007*
- **K-FLEX® MALAYSIA** *2008*
- **K-FLEX® POLAND** *2010*
- **K-FLEX® DUBAI** *2011*
- **K-FLEX® INDIA** *2011*
- **K-FLEX® RUSSIA** *2017 2nd plant*
- **K-FLEX® EGYPT** *2018*
- **K-FLEX® VIETNAM** *2019*
- **K-FLEX® POLAND** *2019 2nd plant*
- **K-FLEX® MEXICO** *2020*
- **K-FLEX® UK** *2022 2nd plant*
- **K-FLEX® MEXICO** *2022 2nd plant*
- **K-FLEX® PORTUGAL** *2023*
- **K-FLEX® RUSSIA** *2023 3rd plant*
- **K-FLEX® RUSSIA** *2023 4th plant*
- **K-FLEX® POLAND** *2023 3rd plant*
- **K-FLEX® POLAND** *2024 4th plant*



K-FLEX® POLSKA production plant

BUSINESS AREA

K-FLEX® is a reference point for excellence in the insulation market through the quality of its processes and products and the continuous search for innovative solutions. K-FLEX® offers a wide range of products to meet the needs of the following areee market:

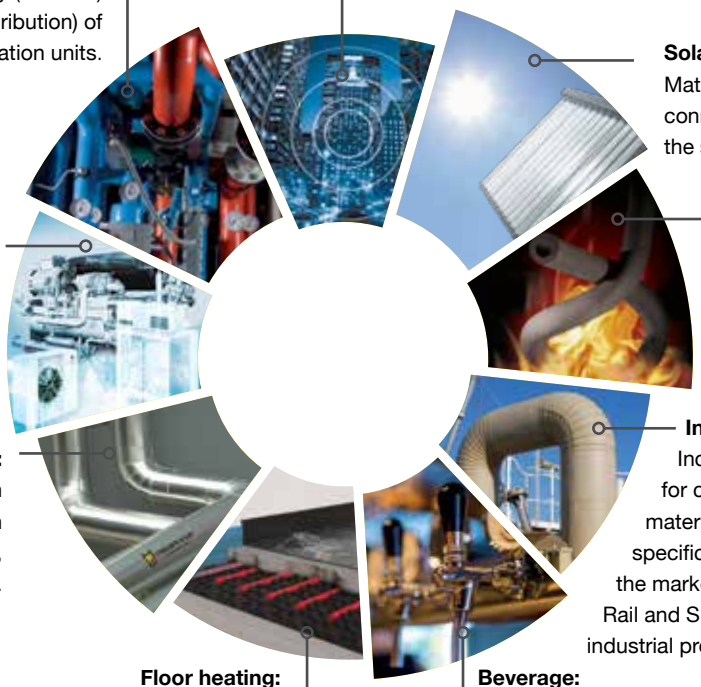
Air Conditioning and Refrigeration:
Thermal insulation of the machinery (facilities) and pipework (distribution) of air conditioning and refrigeration units.

Acoustics:
K-FLEX® supplies specialised products and solutions to the acoustic markets.

Solar Thermal Market:
Materials are used for the hydraulic connections from vessels or tanks to the solar panels.

Firestopping:
Complete range of solutions for fire protection, that will ensure the compliance with the most stringent regulatory requirements.

O. E. M.:
K-FLEX® supplies products to customers who install them in equipment during their own manufacturing processes.



Industrial and Commercial:
Includes both the distribution sales network for companies that make thermal insulation materials their core business (commercial) and specific industrial segments, which consist of the markets for Oil and Petrochemical (Oil & Gas), Rail and Ship Building, Pharmaceutical and other industrial processes.

Heating and Plumbing:
Sold through a structured distribution network, made up of large distribution companies that specialize in thermal, hydraulic and sanitary products.

Floor heating:
Complete system with tools and accessories for underfloor heating installations.

Beverage:
Wide range of innovative insulated systems products for the beverage industry.

MISSION

To be the **market leader** in the production of **insulation materials** and to effectively answer the specific needs of its customers and markets, while providing **advanced technological solutions** and **innovative insulation systems**.





LOGISTIC AND DISTRIBUTION

The high flexibility of our production structure allows us to up-date our stock rotation based on sales forecasts. Being able to give thorough answers to any request is one of K-FLEX®'s strong points. The K-FLEX® warehouse enables high performance in terms of speed, handling some 4,000 different products with a fast turnover. Our warehouse has a dedicated goods despatch area, especially designed with ergonomics and organisation in mind. This area has been constructed on different levels with lifts to facilitate easy pallet handling. Through these actions the shipping area of our Poland plant warhouse is able to prepare and load a quantity of materials equal to 60 complete trucks per day and more than 52000 complete trucks per year.
With our additional national logistic centers K-FLEX® is able to deliver to almost all areas in Europe within 24 hours.



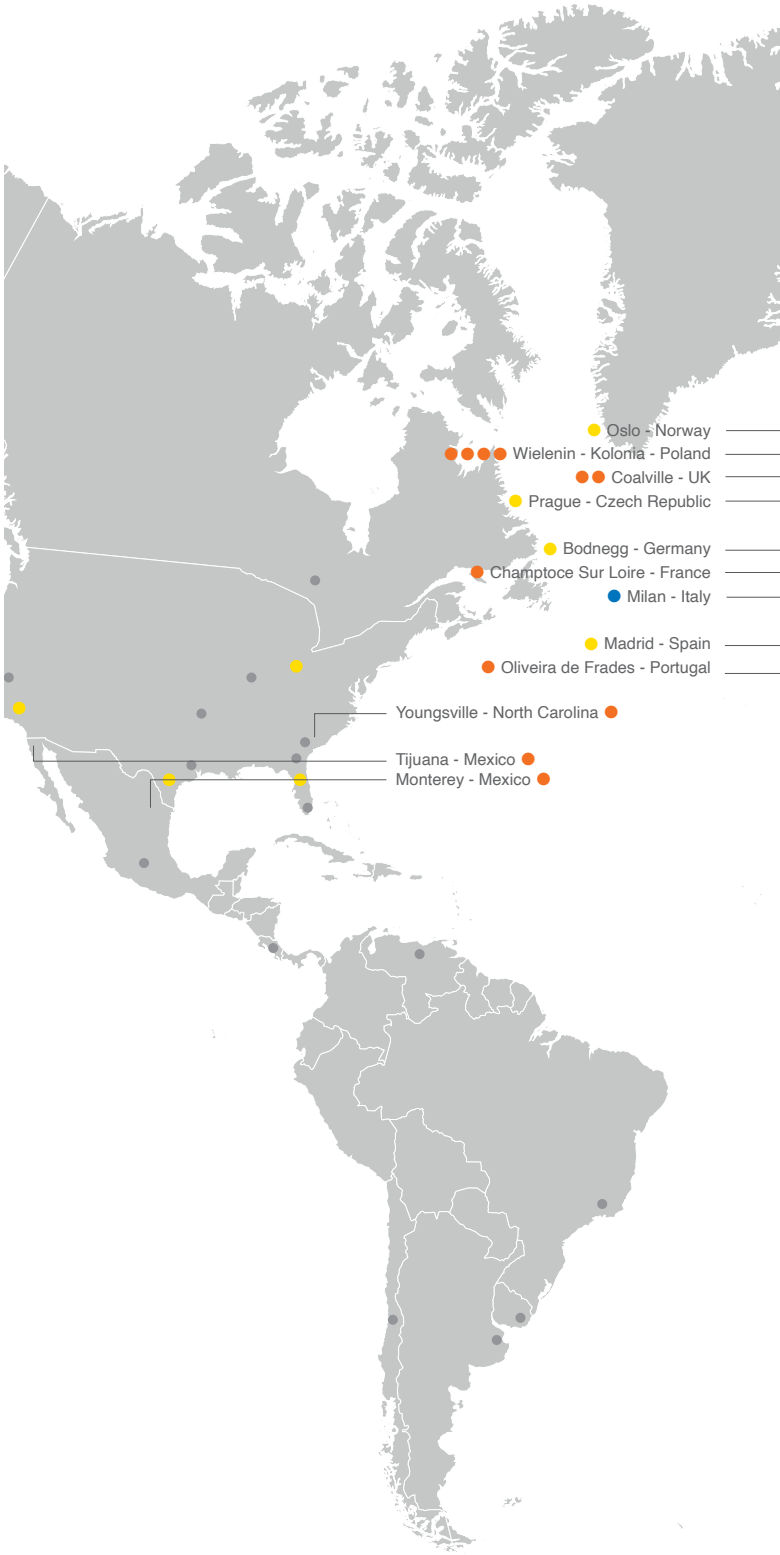
IN THE WORLD

K-FLEX® distributes products to over 63 countries. As part of its business strategy, K-FLEX® will continue to seek to expand its sales and market share in various international markets, particularly in emerging regions.

K-FLEX®'s international production network is in response to a rapidly expanding insulation market. Unlike other markets, K-FLEX® does not globalize as a strategy to decrease labour costs, but instead, is expanding in order to more efficiently reach local markets. Thermal insulation materials are high volume products and shipping costs have a strong impact on pricing. Maintaining a close vicinity to the local market and reducing transportation costs are, therefore, important strategic factors in this industry. A close proximity to customers provides K-FLEX® with the flexibility to adapt in this global market that is constantly evolving.

One of the strengths of K-FLEX® is the ability to effectively answer the specific needs of its customers through a particularly flexible production structure, that enables inventory updates based on their sales forecasts. This flexibility allows for a better level of service to the customer.

Further Expansion
K-FLEX® is focused on continuing to utilize its internationa presence in order to strengthen penetration in the high growth emerging markets. K-FLEX® is particularly focused on pursuing attractive growth opportunities in Asia Pacific, the Middle East, Eastern Europe and North America. The aim of K-FLEX® is to continue expanding its market share in key end markets by further developing its product offer for these markets and by growing relationships with existing and new customers globally.



- **1989** Year of foundation Roncello Italy
- **63** Countries with K-FLEX® subsidiaries
- **5** Continents with Logistics centers
- **21** Plants Worldwide
- **6.200+** Employees Worldwide
- **50.000+** Customers Worldwide

LOCAL CENTRES FOR
WORLDWIDE DISTRIBUTION





	Heating	Air Conditioning / Ventilation	Refrigeration	Solar	Industrial	Oil & Gas	Ship building	Train	Halogen Free	UV Resistant
K-FLEX® S1	•	•								
K-FLEX® S2	•	•								
K-FLEX® ST	•	•	•		•	•	•	•		
K-FLEX® ST DUCT	•	•	•							
K-FLEX® ST FRIGO		•	•							
K-FLEX® EC	•	•								
K-FLEX® ECO	•	•	•		•	•	•	•	•	
K-FLEX® SOLAR HT	•			•	•	•			•	•
K-FLEX® SRC/SRC ECO	•	•	•						•	
K-FLEX® PE	•	•								
K-FLEX® AL CLAD SYSTEM	•	•	•		•					•
K-FLEX® COLOR SYSTEM	•	•	•							
K-FLEX® IN CLAD SYSTEM					•	•		•		
K-FLEX® IC CLAD SYSTEM					•	•	•	•		
K-FLEX® SOLAR R				•						•
K-FLEX® TWIN SOLAR SYSTEM				•						•
K-FLEX® TWIN SOLAR SYSTEM SLIM				•						•
K-FLEX® K-ROCK	•	•			•					
K-FLEX® ECO ALU NET	•	•	•		•	•	•		•	
K-FLEX® SPLIT		•	•							

			SOUND INSULATION				SOUND ABSORPTION						SYSTEM
	WORK SECTOR	APPLICATIONS	K-FLEX® ST	K-FLEX® K-FONIK ST GK	K-FLEX® K-FONIK GK	K-FLEX® K-FONIK GV	K-FLEX® K-FONIK OPEN CELL160	K-FLEX® K-FONIK OPEN CELL 240	K-FLEX® K-FONIK B	K-FLEX® K-FONIK P	K-FLEX® K-FONIK PE GK	K-FLEX® K-FONIK PU GK	K-FLEX® INDUSTRIAL*
	BUILDING	Floors	•										
		Walls		•	•		•	•	•	•			
		Structure	•	•	•								
	HVAC	Ventilation ducts and drainage pipes		•	•		•	•	•		•	•	
	INDUSTRIAL and OIL & GAS	Piping, equipment and plants			•	•		•					•
	OEM PRODUCTS	Machinery covers, engine compartments		•	•		•	•	•	•	•	•	
	TRAIN & SHIPBUILDING	Vani Motore, Partizioni, Impianti tecnici				•							
	AUTOMOTIVE	Engine noise insulation and frames, sound absorption for roof frames, driver cabins		•	•		•	•					

* Refer to K-FLEX® K-FONIK INDUSTRIAL brochure

K-FLEX® PACKAGING ▸ TUBES

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET**
		LENGTH	WIDTH	HEIGHT	QUANTITY*	LENGTH	WIDTH	HEIGHT	QUANTITY	
	Tubes 2m: K-FLEX® ST K-FLEX® EC K-FLEX® ECO K-FLEX® SOLAR HT	210	39	32	21 18	210 210	120 120	239 207	12	
	Tubes 2m: K-FLEX® COLOR	210	39	39	15	210	120	245	12	
	Tubes 2m: K-FLEX® PE K-FLEX® PE PLUS K-FLEX® PE COLOR K-FLEX® PE PLUS COLOR	208	59	39	10	210	118	223	12	
	Tubes 2m: K-FLEX® PE K-FLEX® PE PLUS K-FLEX® PE COLOR K-FLEX® PE PLUS COLOR	208	39	32	18	210	118	223	12	
	Tubes 1m: K-FLEX® COLOR K-FLEX® IC CLAD K-FLEX® IN CLAD K-FLEX® SRC ECO K-FLEX® AL CLAD K-FLEX® K-ROCK****	108	39	39	36	210	120	255	12	
	Tubes in coils: K-FLEX® PE COLOR	105	55	55	16	210	120	235	12	
	Tubes in coils: K-FLEX® SOLAR HT	59	59	40	36 16 30 12	210 120 210 120	120 80 120 80	255 251 215 192	12	
	Tubes in coils: K-FLEX® EC-H K-FLEX® H	49	49	28	72	210	120	250	12	
	Tubes in coils: (industrial): K-FLEX® ST FRIGO	80	80	40	18	210	120	255	12	
	Tubes in coils: K-FLEX® ST FRIGO	52	50	21	88 32 72 36	210 120 210 120	120 80 120 80	246 246 204 220	12	
	Tubes in coils: K-FLEX® SPLIT K-FLEX® SPLIT TWIN	80 100	80 100	15 15	17	120 100	80 100	212 212		

* Maximum number per pallet
** Images for illustration purposes only, the amount of cartons/pallet may differ from that shown.
*** Maximum height = 265 cm Depending on the thickness of the insulation sheet packing can vary in size, which may affect the overall height.
**** Big dimension items may use a different packaging (55x55x105cm)

K-FLEX® PACKAGING ▸ K-FONIK

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET**
		LENGTH	WIDTH	HEIGHT	QUANTITY*	LENGTH	WIDTH	HEIGHT	QUANTITY	
	K-FLEX® K-FONIK GK/GV: 1000 mm 1200 mm 1500 mm	102 - -	19 - -	16,5 - -	16 from 1 to 5 1	120 120 130	80 80 110	12 12 12		
	K-FLEX® K-FONIK OPEN CELL	210	109	16,5	7	210	110	14		
	K-FLEX® K-FONIK ST GK	102	19	19	30	110	110	14		

* Maximum number per pallet
** Images for illustration purposes only, the amount of cartons/pallet may differ from that shown.
Logistic informations and packaging for K-FLEX® K-FONIK B, K-FLEX® K-FONIK P, K-FLEX® K-FONIK PE GK, K-FLEX® K-FONIK FIBER-P and K-FLEX® K-FONIK PU GK on request.

K-FLEX® PACKAGING ▸ SHEETS

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET**
		LENGTH	WIDTH	HEIGHT	QUANTI-TY*	LENGTH	WIDTH	HEIGHT	QUANTITY	
	Sheets 1m: K-FLEX® ST K-FLEX® ECO K-FLEX® COLOR	104	52	52	16	210	120	235	12	
	Sheets 1m: K-FLEX® AL CLAD K-FLEX® IC CLAD K-FLEX® IN CLAD	105	55	55	16	210	120	235	12	
	Sheets 1m: K-FLEX® ST K-FLEX® SRC/SRC ECO	106	40	41	36	210	120	261	12	
	Sheets 1m: K-FLEX® ST	105	73	73	9	216	118	237	12	
	Sheets 2x0,5m	215,5	55	16,5	20	210	120	180		
	Sheets 1,5m in bags: K-FLEX® ST K-FLEX® ST DUCT				20	210	120	265***		

* Maximum number per pallet
** Images for illustration purposes only, the amount of cartons/pallet may differ from that shown.
*** Maximum height = 265 cm Depending on the thickness of the insulation sheet packing can vary in size, which may affect the overall height.
NB: transport volumes are calculated for full loads. This may change according to the size of the truck. Please check with our customer service department on transport volumes valid for the particular job.

K-FLEX® PACKAGING ▸ SOLAR SYSTEM

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET**
		LENGTH	WIDTH	HEIGHT	QUANTI-TY*	LENGTH	WIDTH	HEIGHT	QUANTITY	
	K-FLEX® TWIN SOLAR SYSTEM	80 80 80 80	80 80 80 80	29 39 55 65	14 12 8 6	160 160 160 160	80 80 80 80	218 249 235 210		
	K-FLEX® SOLAR R (Tube in coils)	80	80	29	14	160	80	218		
	K-FLEX® SOLAR R (Standard carton)	39	32	210	21	212	118	245		
	K-FLEX® SOLAR R (Half carton)	39	15,5	210	42	212	118	245		
	K-FLEX® TWIN SOLAR SYSTEM SLIM	120 120 80 115	120 120 80 115	80 64 82 84	2 2 2 2	120 120 80 120	120 120 80 120	175 143 179 183		

* Maximum number per pallet
** Images for illustration purposes only, the amount of cartons/pallet may differ from that shown.

K-FLEX® PACKAGING ▸ TAPES

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET
		LENGTH	WIDTH	HEIGHT	QUANTITY	LENGTH	WIDTH	HEIGHT	QUANTITY	
	K-FLEX® ALU AA CW TAPE K-FLEX® ALU HA CW TAPE	27	27	31	96	110	110	201	-	
	K-FLEX® ALU AR CW TAPE K-FLEX® ALU HAR CW TAPE	31	31	31	72	130	100	-	-	
	K-FLEX® ALU KRAFT TAPE	31	31	31	72	110	110	-	-	
	K-FLEX® ST ELASTOMERIC TAPE	64	28	28	96	120	80	180	33	

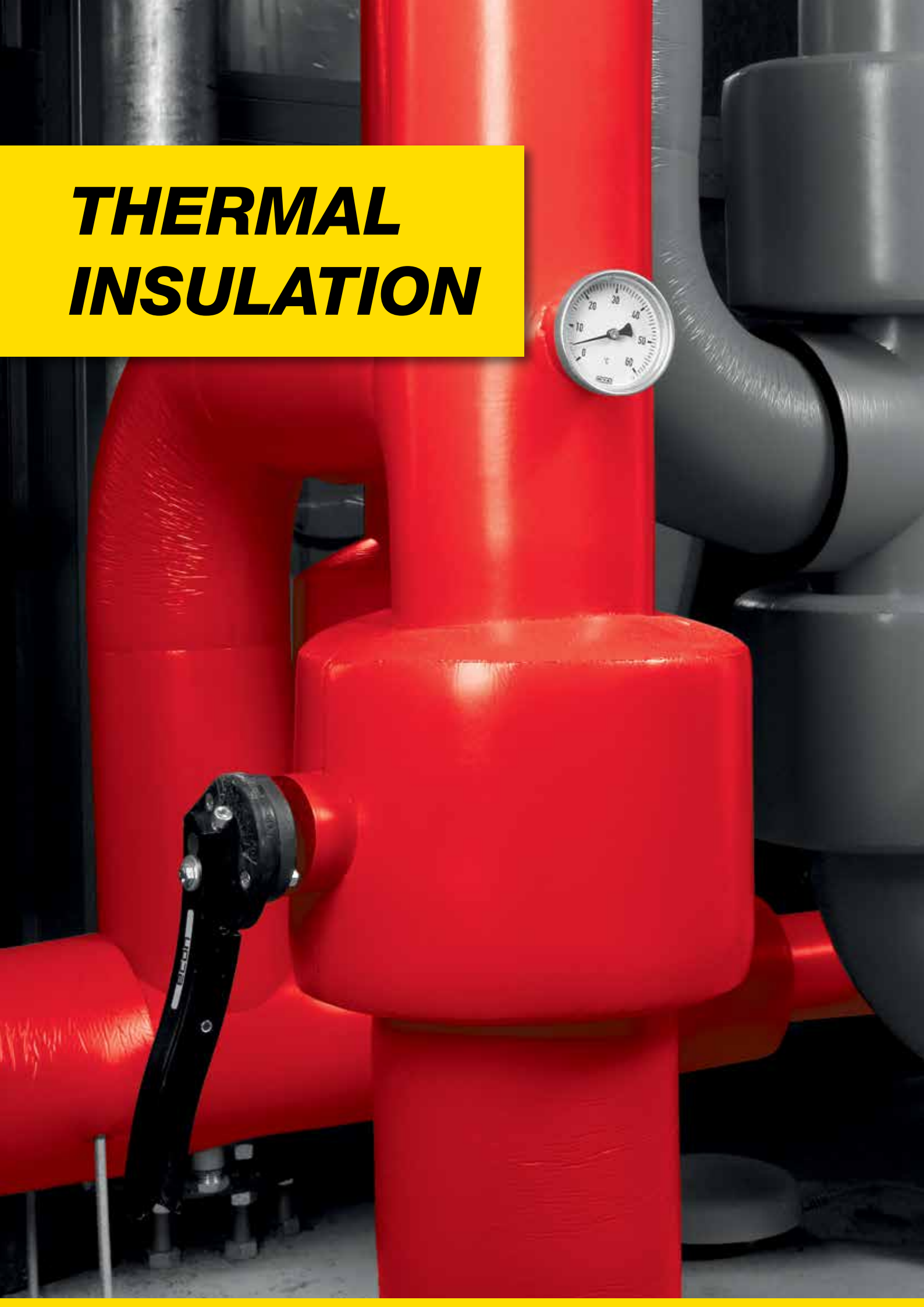
CARTONS	PRODUCT	CARTON DIMENSIONS IN CM			CARTONS/ PALLET	PALLET DIMENSIONS IN CM			PALLETS / TRUCKS	PALLET
		LENGTH	WIDTH	HEIGHT	MAX. NUMBER	LENGTH	WIDTH	HEIGHT	MAX. NUMBER	
	K-FLEX® R90	106	40	25	-	212	118	15	-	

Note: Transport quantities may vary depending on the size of the truck. Please contact our Customer Service for information about the transport quantities that apply to your order.

K-FLEX® PACKAGING ▸ TAPES

CARTONS	PRODUCTS	CARTON DIMENSIONS (CM)			CARTONS/ PALLET	PALLET DIMENSIONS (CM)			PALLET/ TRUCK	PALLET
		LENGTH	WIDTH	HEIGHT	QUANTITY	LENGTH	WIDTH	HEIGHT	QUANTITY	
	K-FLEX® ECO ELASTOMERIC TAPE	64	28	28	24	120	80	180	-	
	K-FLEX® SOLAR HT ELASTOMERIC TAPE	64	28	28	24	120	80	180	-	
	K-FLEX® COLOR ELASTOMERIC TAPE	64	28	28	24	120	80	180	-	
	K-FLEX® BITUMINOUS CONGLOMERATE TAPE	62	21	25	24	120	80	180	-	
	K-FLEX® CLOTH DUCT TAPE	31	31	31	96	130	100	201	-	
	K-FLEX® BUTYL TAPE 50 mm 100 mm	 15 15	 29 29	 32 32	 40 40	 120 120	 80 80	 143 143	 - -	
	K-FLEX® PVC 070 TAPE	21	15	17	24	120	80	140	-	

Important note: the transport quantities are calculated for complete truck loads. They may differ depending on the truck size.
Please contact our Customer Service for information about the transport quantities applicable to your respective order.



THERMAL INSULATION



K-FLEX® THERMAL INSULATION

The K-FLEX® range of thermal insulation products offers everything necessary to meet the technical insulation demands of both civil and industrial installations, to reduce energy consumption and prevent condensation and corrosion under insulation.

K-FLEX® products cover a range of temperature for applications including cryogenic plants to chilled water systems, and from domestic hot water systems to solar thermal plants. Their high resistance to water vapour diffusion is a key feature of all K-FLEX® closed cell elastomeric insulation materials.

Typical applications include:
refrigeration and air-conditioning systems; plumbing, industrial, chemical and pharmaceutical plant engineering; insulation of pipes, fittings and other equipment; insulation of tanks, solar systems and all OEM applications requiring thermal insulation.

The product range for the civil sector already complies with the current European testing for fire resistance of building elements.

For more specific areas such as marine, rail, oil &gas, K-FLEX® products already have the most important and relevant international approvals and certification in their field. The final choice of a suitable coating completes the insulation system.
The different finishes (cladding) available for K-FLEX® systems conform to industry standards and offer UV protection, mechanical and chemical protection and an aesthetic finish.

K-FLEX® S1

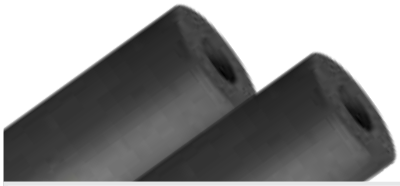




K-FLEX® S1

- Uncoated tubes with Euroclass B_L-s1,d0 - featuring the industry-leading classification for minimal smoke emission
- The optimal product for air conditioning/ventilation applications
- Excellent thermal insulator
- Application temperature range from -40 °C at 110 °C
- NBR based product
- Soft, highly flexible, and easy to apply
- K-FLEX® S1 OPEN TUBES: suitable for pipes (including insulation) up to a maximum diameter of Ø 300 mm

TECHNICAL DATA



Low smoke.
High compliance.
Euroclass B_L-s1,d0

K-FLEX® S1 ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +110°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	-20°C = 0,038 0°C = 0,040 +20°C = 0,042 +40°C = 0,044	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 7000	EN 12086
Fire rating	Euroclass B_L-s1, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

For applications below -40°C please contact our technical department.

K-FLEX® reserves the right to change data and technical requirements without notice.

RANGE

K-FLEX® S1 ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® S1 - Tubes	2 m	9-13-19-25-32 mm	from 6 to 114 mm
K-FLEX® S1 OPEN TUBES: applicable on pipes (incl. insulation) up to max. outer Ø 300 mm.			

DESCRIPTION

When it comes to insulation materials, safety is just as important as performance. One crucial aspect is the reaction to fire classification, especially for materials like expanded elastomeric foam used in pipe insulation. These products must meet stringent fire safety standards to prevent the spread of flames and reduce smoke emissions in case of fire. Choosing high-quality, fire-resistant elastomeric insulation enhances both thermal efficiency and safety, making buildings more secure and comfortable.

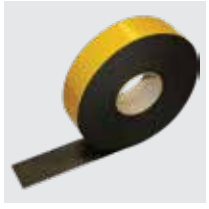
For this reason, K-FLEX® has expanded its product range with **K-FLEX® S1**, a **Euroclass B_L-s1, d0** tube that meets the necessary requirements for enhanced fire safety and performance. This ensures regulatory compliance while maintaining the highest standards of insulation and comfort.

ACCESSORIES

To complete the K-FLEX® S1 range, we recommend the use of K-FLEX® S2 sheet, pre-formed elastomer bends and 'T's, tapes and pipe supports.










K-FLEX® S1: THE SMART CHOICE FOR SAFE AND EFFICIENT INSULATION.

K-FLEX® ST





K-FLEX® ST

- Elastomeric insulation for all civil and industrial applications
- High performance for all applications in a temperature range from -165 °C to +110 °C
- Prevents the risk of condensation and improves energy saving
- Class of reaction to fire euroclass B_L-s2, d0
- Very fine closed cellular structure and high technical performance
- Resistant to mould, fungi and bacteria
- Light and flexible

Site	Video

TECHNICAL DATA



K-FLEX® ST ▸ TECHNICAL DATA

Property	Value		Test method
Temperature range	K-FLEX® ST Tubes: from -165°C* to +110°C K-FLEX® ST/SK: from -40°C to +85°C K-FLEX® ST Sheets: from -165°C* to +85°C		EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	Thicknesses ≤ 25mm -20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	Thicknesses > 25mm -20°C = 0,034 0°C = 0,036 +20°C = 0,038 +40°C = 0,040	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)		EN 13468
Permeability μ	≥ 10000	≥ 7000	EN 12086
Fire rating	K-FLEX® ST Tubes: Euroclass B_L-s2, d0 K-FLEX® ST/SK: Euroclass B_L-s2, d0 K-FLEX® ST Sheets: Euroclass B-s3, d0		EN 13501-1
Ecological data	Without CFCs and HCFCs		
Approvals	Environmental Product Declarations EPD ECO-BAU and MINERGIE-ECO UL94 FM Approval		UNI ISO 14025 & EN 15804:2012+A2:2019
Railway approvals	R1-HL2		EN 45545
Marine approvals	CE-MARINE (Bureau Veritas) ABS (American Bureau of Shipping) DNV Lloyd's Register		

* For industrial applications, product can be applied down to -198°C; for applications below -40°C please contact our technical department.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® ST ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® ST - Tubes	2 m	6-9-13-19-25-32-40-50-60 mm	from 6 to 210 mm
K-FLEX® ST/SK - Adhesive tubes	2 m	9-13-19-25-32 mm	from 12 to 114 mm

K-FLEX® ST OPEN TUBES: applicable on pipes (incl. insulation) up to max. outer Ø 300 mm.

	Thicknesses	Height
K-FLEX® ST - Sheets	3-6-10-13-19-25-32-40-50-60 mm	1000/1500 mm
K-FLEX® ST - Adhesive sheets	3-6-10-13-19-25-32-40-50 mm	1000/1500 mm

GENERAL INFORMATION



K-FLEX® ST TUBES

K-FLEX® ST products meet all the requirements demanded by civil and industrial refrigeration, air conditioning, plumbing, insulation of tanks, fittings, water pipes and all other applications that need thermal insulation.



K-FLEX® ST/SK TUBES

K-FLEX® ST/SK TUBES with overlap

K-FLEX® ST/SK is a cut-to-length self-seal elastomeric insulation. This innovative technology includes adhesive tapes which are quick and easy to use for the installer. This new system has been developed to save on installation time and reduce the use of other adhesives to improve working conditions at the construction site. Also available as version with overlap - **K-FLEX® ST/SK** with overlap.



K-FLEX® ST SHEETS are ideal for sheet metal ducts and large size pipes. The height of 1000/1500 mm minimises segmentation of the coating and simplifies installation, greatly reducing time and labour cost.
Available in standard and adhesive.



PROJECTS

Germany





K-FLEX®
SRC-SRC ECO





K-FLEX® SRC - SRC ECO

- Products with reaction to fire euroclass B_L-s1, d0 / B-s2, d0
- Low smoke emission in case of fire
- Excellent thermal conductivity
- High resistance to water vapour diffusion
- Application temperatures from -40 °C to +85 °C
- Internal UV-resistance

Site

TECHNICAL DATA



K-FLEX® SRC ECO ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C* to +150°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,036 0°C = 0,038 +20°C = 0,040 +40°C = 0,042	EN 12667
Corrosion prevention	pH neutral (7)	EN 13468
Water permeability	WS < 0.1%	EN 13472
Permeability μ	≥ 3000	EN 12086
Fire rating	Tube: Euroclass B_L-s1,d0 Sheet: Euroclass B-s2,d0 Tape: Euroclass B-s1,d0	EN 13501-1
Leacheable chloride	< 500 ppm	EN 13468
Ecological data	Without halogens, PVC, CFCs, HCFCs and Formaldehyde	
Approvals	Environmental Product Declarations EPD	UNI ISO 14025 & EN 15804:2012+A2:2019

* For applications below -40°C please contact our Technical Department

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® SRC ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C* to +85°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	EN 12667
Corrosion prevention	pH neutral (7)	EN 13468
Water permeability	WS < 0.1%	EN 13472
Permeability μ	≥ 10000	EN 12086
Fire rating	Euroclass B-s2,d0	EN 13501-1
Leacheable chloride	< 500 ppm	EN 13468
Ecological data	Without CFCs and HCFCs	
Approval	FM Approval	

*For applications below -40°C please contact our Technical Department

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

Insulation sheets with reduced smoke emission.

DESCRIPTION
K-FLEX® SRC's innovative design combines the high thermal performance of a rubber based flexible elastomeric foam with a reduced smoke emission coating.

APPLICATIONS
K-FLEX® SRC sheet is ideal for thermal insulation of pipes, ducting and technical systems in public buildings.

CLASSIFICATION
K-FLEX® SRC sheet has been tested according to the current European Standard EN 13501-1 for fire classification of construction products, and is classified B-s2, d0.

The main advantages of **K-FLEX® SRC** are:
- Retarded ignition of the flame
- Reduced flame propagation.
- Low thermal conductivity.
- High resistance to water vapour diffusion.
- Wide range of operating temperatures.
- Consistent performance.
- Higher mechanical properties with respect to uncoated elastomeric insulation.
- Quick and easy installation.

HALOGEN FREE Insulation with reduced smoke emission.

DESCRIPTION
K-FLEX® SRC ECO is an insulating product comprising a layer of closed cell elastomeric foam and a protective jacket.
The special **K-FLEX® SRC ECO** configuration offers a unique product which, in case of fire, retards the emission of smoke and fumes which are also free of hydrohalic acids and organochlorine compounds.

APPLICATIONS
K-FLEX® SRC ECO is ideal for thermal and acoustic insulation of walls and technical installations where low smoke emission is required in case of fire.

CLASSIFICATION
K-FLEX® SRC ECO has been tested according to the current European standard EN 13501-1, for fire classification of construction products, and is classified B_L-s1, d0/ B-s2, d0.

The main advantages of **K-FLEX® SRC ECO** are:
- No halogen in the composition or expansion of the elastomeric material.
- No smoke containing hydrohalic acids and organochlorine compounds in case of fire.
- Retarded ignition of the flame.
- Retarded flame propagation.
- Reduced emission of smoke.
- Higher mechanical properties with respect to an uncoated elastomeric insulation foam.
- Quick and easy installation.

K-FLEX® SRC/SRC ECO ▸ RANGE

	Thicknesses	Height
K-FLEX® SRC - Sheets	6-9-13-19-25-32 mm	1000 mm
K-FLEX® SRC - Adhesive sheets	6-9-13-19-25-32 mm	1000/1500 mm
	Length	**Thicknesses**	**Diameters**
K-FLEX® SRC ECO - Tubes	1 m	9-13-19-25-32 mm	from 15 to 160 mm
	Thicknesses	**Height**
K-FLEX® SRC ECO - Sheets	9-13-19-25-32 mm	1000 mm
K-FLEX® SRC ECO - Adhesive sheets	9-13-19-25-32 mm	1000 mm

K-FLEX® S2



Low smoke emission sheet **s2**

Can be combined with **K-FLEX® ST**





K-FLEX® S2 SHEETS

- The optimal product for air conditioning/ventilation applications
- Excellent thermal insulator
- Application temperature range from -40 °C at 85 °C
- NBR based product
- Easy to apply
- With K-FLEX® ST complete range s2 low smoke emission hoses

TECHNICAL DATA



K-FLEX® S2 ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +85°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	-20°C = 0,034 0°C = 0,036 +20°C = 0,038 +40°C = 0,040	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 7000	EN 12086
Fire rating	Euroclass B-s2,d0 (19 - 32 mm) Euroclass C-s2,d0 (10 - 13 mm)	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

RANGE

K-FLEX® S2 ▸ RANGE

	Thicknesses	Height
K-FLEX® S2 - Sheets	10-13-16-19-25-32 mm	1000 mm
K-FLEX® S2 - Adhesive sheets	10-13-16-19-25-32 mm	1000 mm

DESCRIPTION

K-FLEX® S2 sheets offer the usual flexibility, combined with the low smoke emission requirements s2.

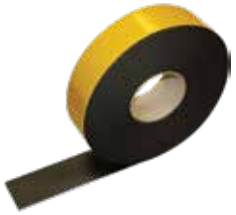
ACCESSORIES

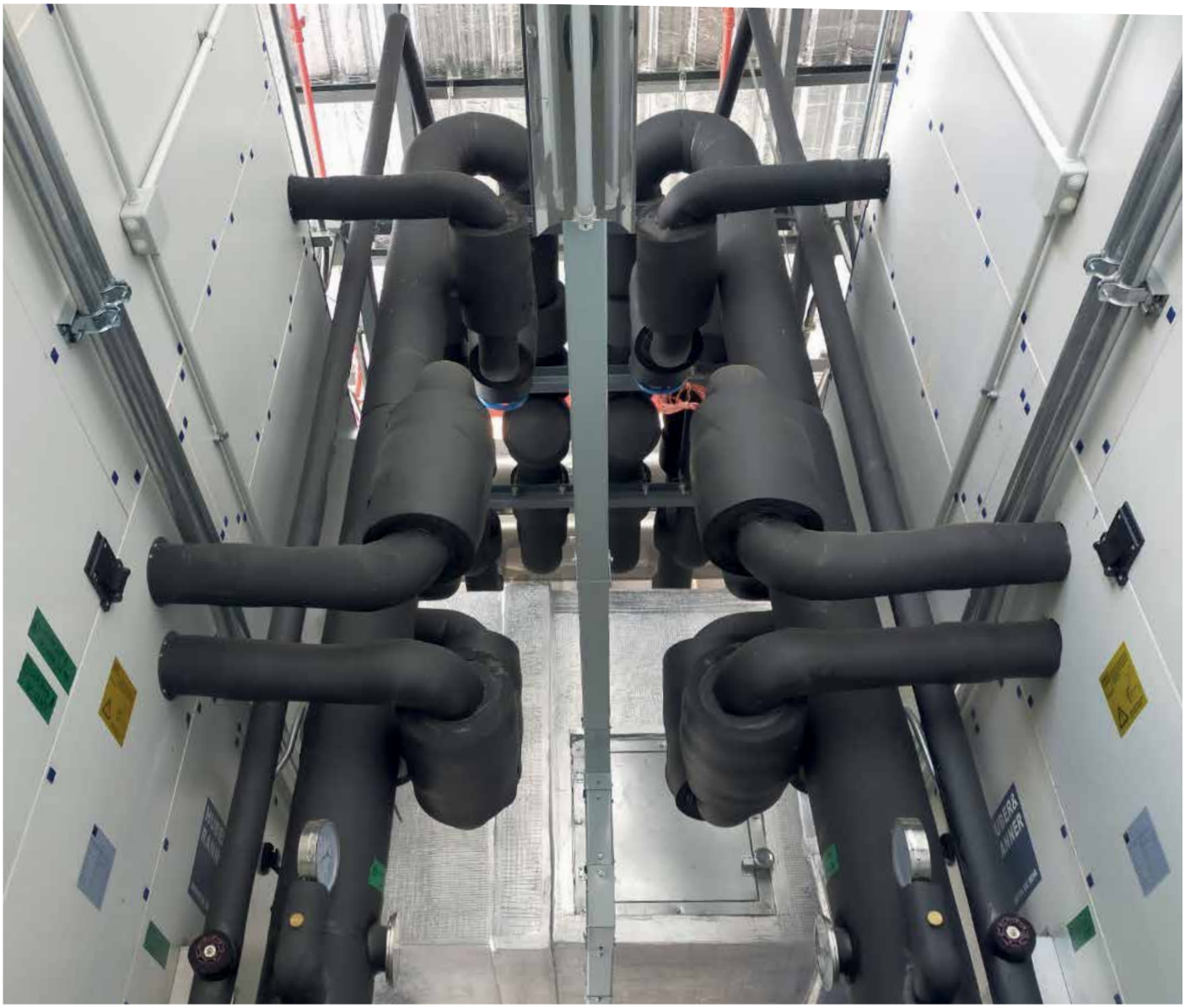
To complete the K-FLEX® S2 sheet range, we recommend the use of K-FLEX® ST tubes, pre-formed elastomer bends and 'T's, tapes and insulating tube holders.







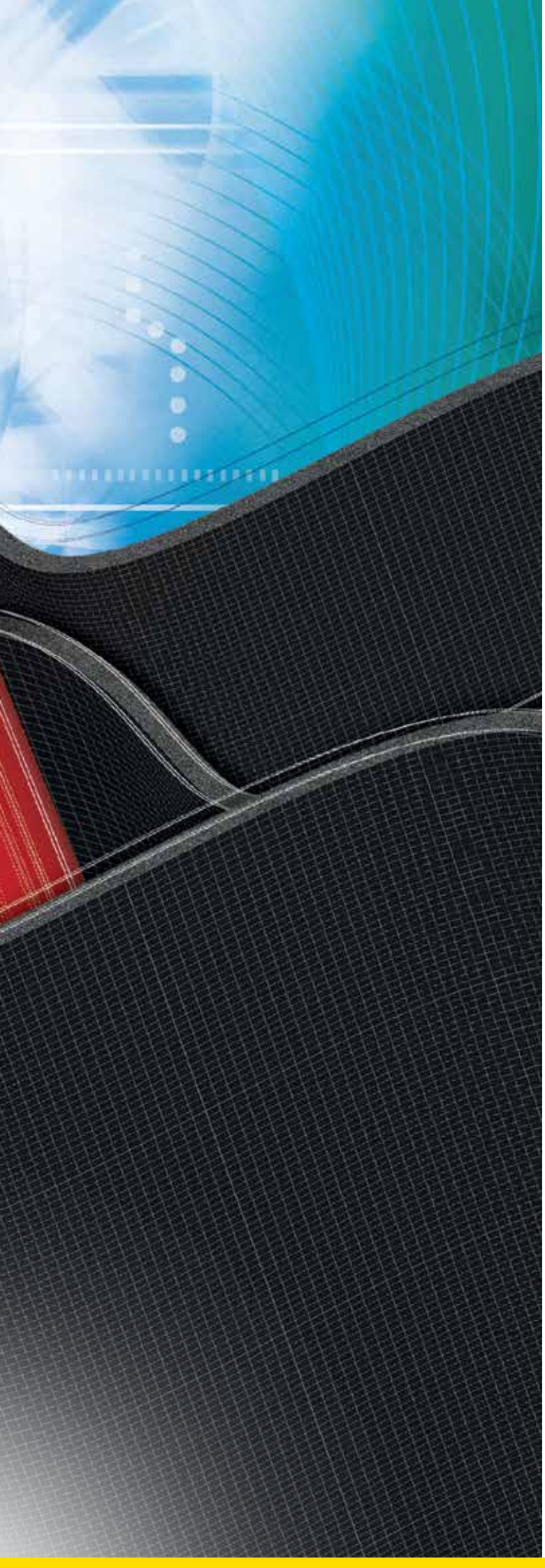




HIGH PERFORMANCE, MAXIMUM SAFETY: K-FLEX® S2

K-FLEX®
ST DUCT







K-FLEX® ST DUCT

- Elastomeric insulation sheets for air ducting
- Specially designed for isolation of ventilation ducts
- 1.5m width reduces installation times
- Adhesive coating

Site

Video

TECHNICAL DATA



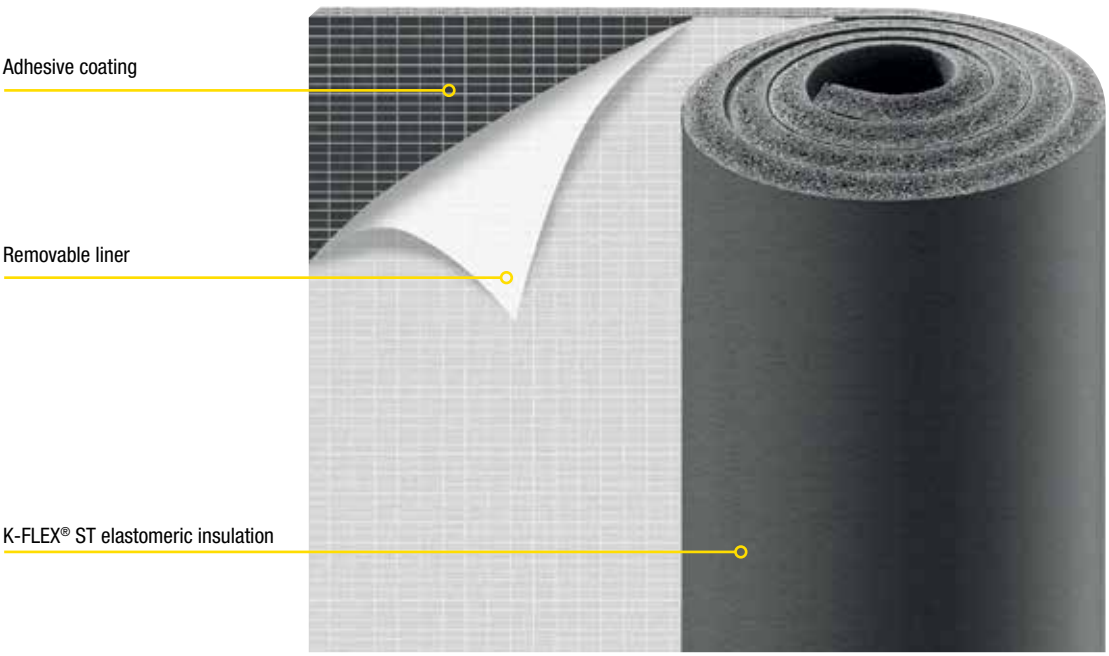
K-FLEX® ST DUCT ▸ TECHNICAL DATA

Property	Value		Test method
Temperature range	from -40°C to +85°C		EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	Thicknesses ≤ 25mm -20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	Thicknesses > 25mm -20°C = 0,034 0°C = 0,036 +20°C = 0,038 +40°C = 0,040	EN 12667
Corrosion prevention	pH neutral (7)		EN 13468
Permeability μ	≥ 7000		EN 12086
Fire rating	K-FLEX® ST DUCT: Euroclass B-s3, d0 K-FLEX® ST DUCT ALU: Euroclass C-s3, d0 K-FLEX® ST DUCT AL CLAD: Euroclass D-s3, d0 K-FLEX® ST DUCT COLOR: Euroclass C-s3, d0		EN 13501-1 EN 13501-1 EN 13501-1 EN 13501-1
Ecological data	Without CFCs and HCFCs		

* For industrial applications, product can be applied down to -198°C; for applications below -40°C please contact our technical department.

K-FLEX® reserves the right to change data and technical requirements without notice.

PRODUCT FEATURES



GENERAL INFORMATION





K-FLEX® ST DUCT

K-FLEX® ST DUCT is specifically produced for the insulation of ventilation and air-conditioning ducts, meeting all the necessary requirements in terms of structure and dimensions.
Economical: flexible and easy to handle, it is made in measurements of 1500 mm in width to ensure easy installation on ducts.

Pratical: the self-adhesive surface has been made rougher to improve its grip on the metal ducts.

Convenient: its 1500 mm width cuts down on application time, reducing the final cost of pre-fabricated ducts.

Flexible: high elasticity helps attenuate vibrations that occur where there are joints and suspensions.

K-FLEX® ST DUCT + FINISHES

K-FLEX® ST DUCT ALU
Elastomeric self-adhesive sheet with reinforced mesh and a smooth aluminium 80 µ thick covering. Width: 1500 mm.

K-FLEX® ST DUCT AL CLAD SYSTEM Elastomeric self-adhesive sheet, with reinforced mesh and AL CLAD covering. Width: 1500 mm.

K-FLEX® ST DUCT COLOR SYSTEM Elastomeric self-adhesive sheet, with reinforced mesh and COLOR coating. Width: 1500 mm.

K-FLEX® ST DUCT ▸ RANGE

	Thicknesses	Height
K-FLEX® ST DUCT - Sheets	6-8-10-12-15-20-30 mm	1500 mm



PROJECTS

Italy, Rimini
Mall “Le Befane“





K-FLEX®
ST FRIGO





K-FLEX® ST FRIGO

- Elastomeric insulation for specialists in cold temperatures
- Practical packaging
- Easy to apply
- High performance
- Suitable for OEM applications

Site

TECHNICAL DATA



K-FLEX® ST FRIGO ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +110°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	Thicknesses ≤ 25mm -20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 10000	EN 12086
Fire rating	Euroclass B_L-s3, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

THE FUNCTIONAL AND USEFUL COOLING SOLUTION



GENERAL INFORMATION



The revolutionary and exclusive packaging offers practical and economic benefits for both usage and distribution.

User-friendly: An aperture in the box lid allows easy removal of the insulation whilst keeping the remaining product intact and in place.

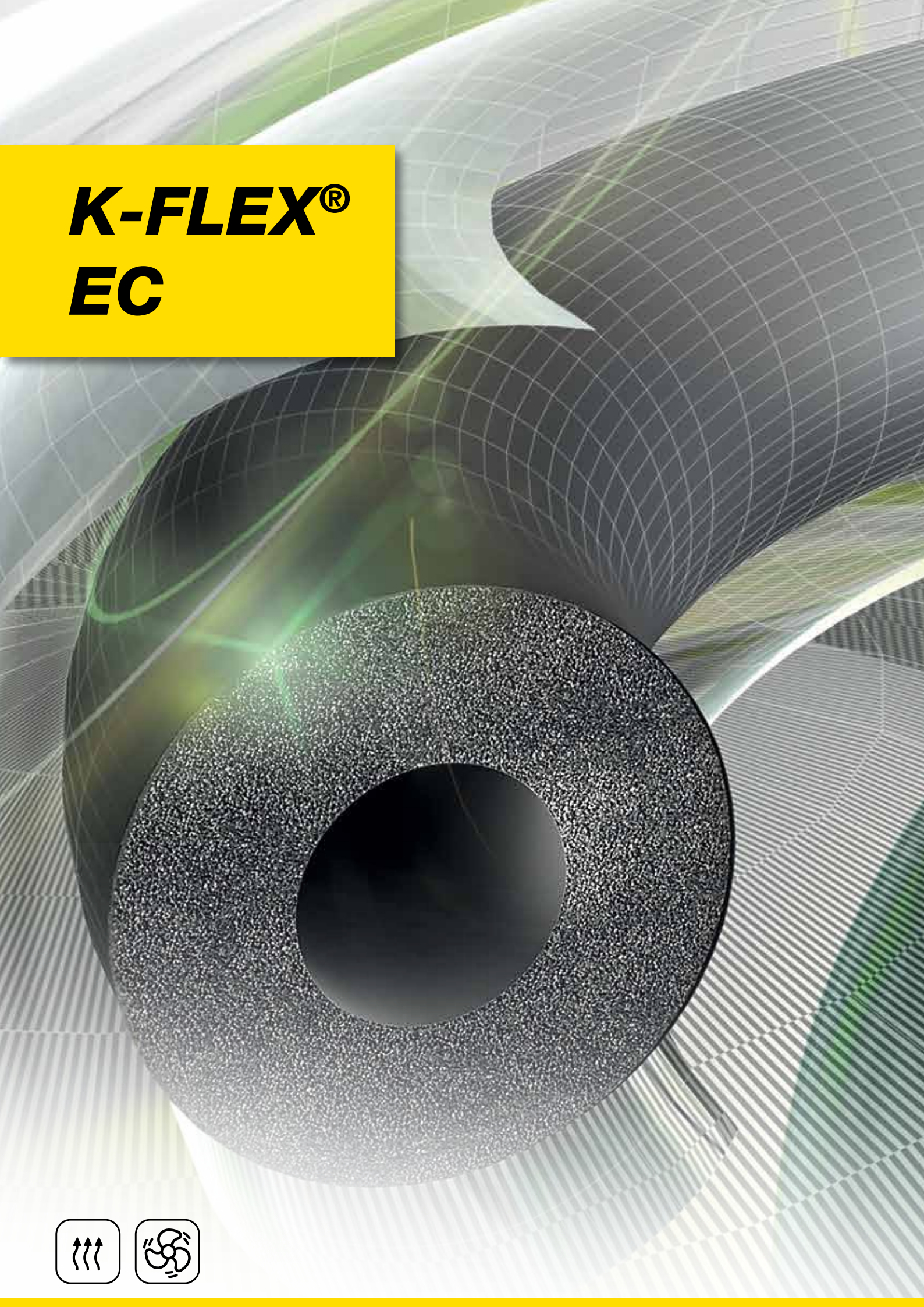
Precision cutting: The ruler printed on the edge of the box facilitates accurate measurement and precise cutting of the insulation required for the job. No more waste product; less use of glue and tape.

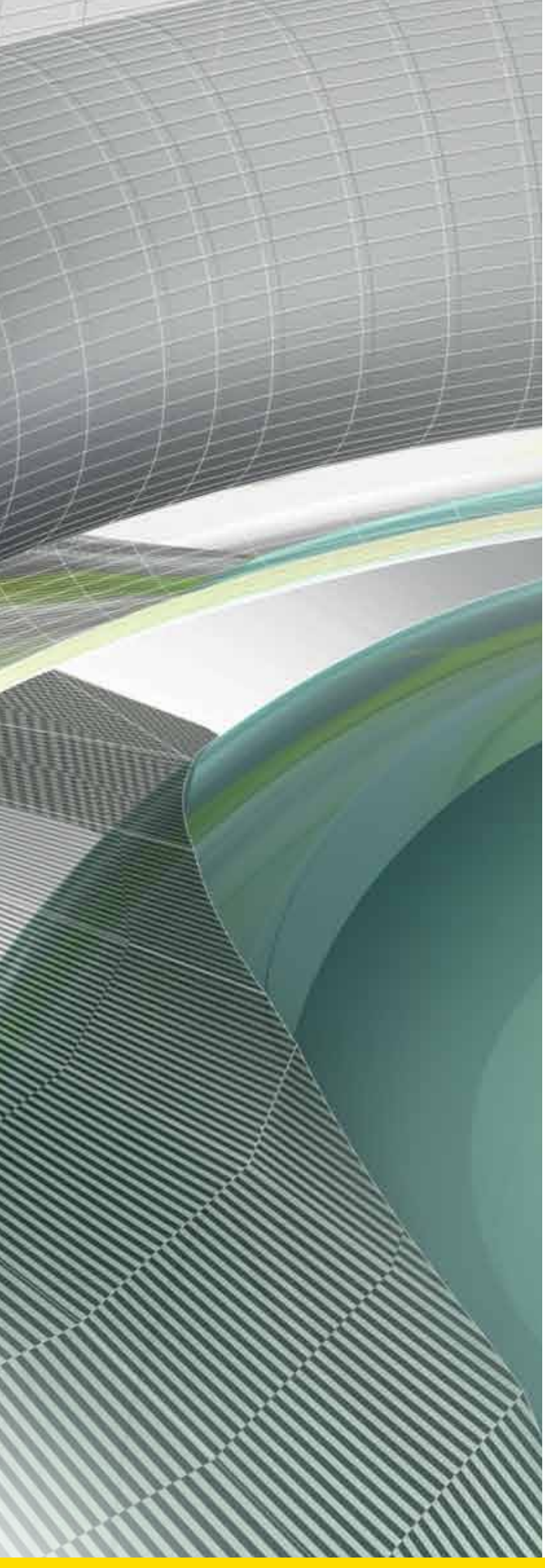
Easy to trasport: On request we can also supply **K-FLEX® ST FRIGO** in industrial sized cartons: 800 x 800 x 400 mm

K-FLEX® ST FRIGO ▸ RANGE

		Thicknesses		Diameters
K-FLEX® ST FRIGO Carton 500x500x200		6-9-13 mm		from 6 to 28 mm
K-FLEX® ST FRIGO Carton 800x800x400		6-9 mm		from 6 to 28 mm
K-FLEX® ST FRIGO Ø tube inches/mm		6 mm m/Carton	9 mm m/Carton	13 mm m/Carton
1/4”	6	50	40	26
5/16”	8	48	37	26
3/8”	10	46	34	23
1/2”	12	40	31	18
5/8”	15	38	27	17
3/4”	18	30	23	15
7/8”	22	23	19	14
1 1/8”	28	20	14	10

K-FLEX® EC







K-FLEX® EC

- Ideal for heating and plumbing systems
- Flexible and easy to work with

Site

TECHNICAL DATA



K-FLEX® EC ▸ TECHNICAL DATA

Property	Value		Test method
Temperature range	K-FLEX® EC: from -40 to +110°C		EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	Thicknesses ≤ 25mm -20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	Thicknesses > 25mm -20°C = 0,034 0°C = 0,036 +20°C = 0,038 +40°C = 0,040	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)		EN 13468
Permeability μ	≥ 7000		EN 12086
Fire rating	Euroclass B_L-s3, d0		EN 13501-1
Ecological data	Without CFCs and HCFCs		
Approvals	Environmental Product Declarations EPD		UNI ISO 14025 & EN 15804:2012+A2:2019

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION



K-FLEX® EC TUBES

K-FLEX® EC offers all the requirements to meet the demands of civil and industrial installations that require the use of insulation material.



K-FLEX® EC/H ROLLS

Ease of use
An aperture in the box lid allows easy removal of the insulation whilst keeing the remaining product in place.

Precision cutting
The ruler printed on the edge of the box facilitates accurate measurement and precise cutting of the insulation required for the job. No more waste product; less use of glue and tape.

Better protection for the insulation in the work place No more wasted material caused by breakage or damage during transport.

K-FLEX® EC ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® EC - Tubes	2 m	6-9-13-19-25-40-50-60 mm	from 10 to 168 mm
K-FLEX® EC/H Rolls		6-9-13 mm	from 6 to 35 mm

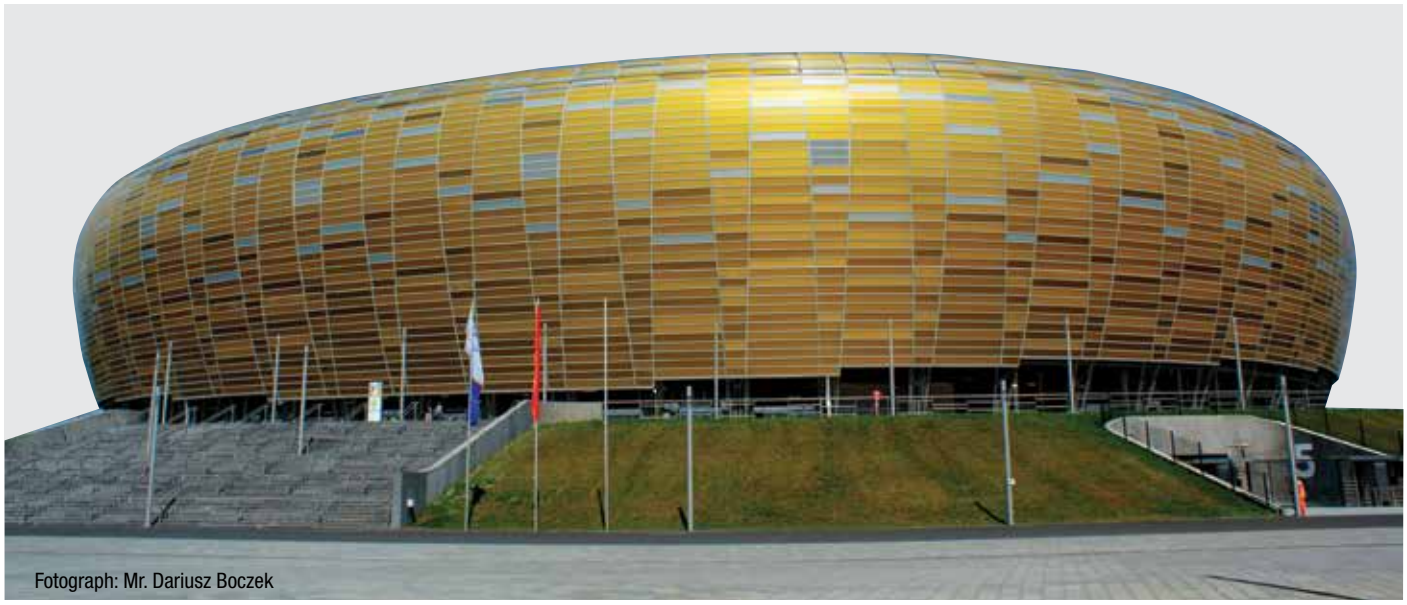
K-FLEX® EC/H Rolls Ø tube mm	6 mm m/Carton	9 mm m/Carton	13 mm m/Carton
6	90	60	
8	80	56	
10	70	51	35
12	60	50	30
15	57	41	26
18	45	35	25
20	45	35	23
22	35	29	21
25	32	25	20
28	30	21	15
35			12





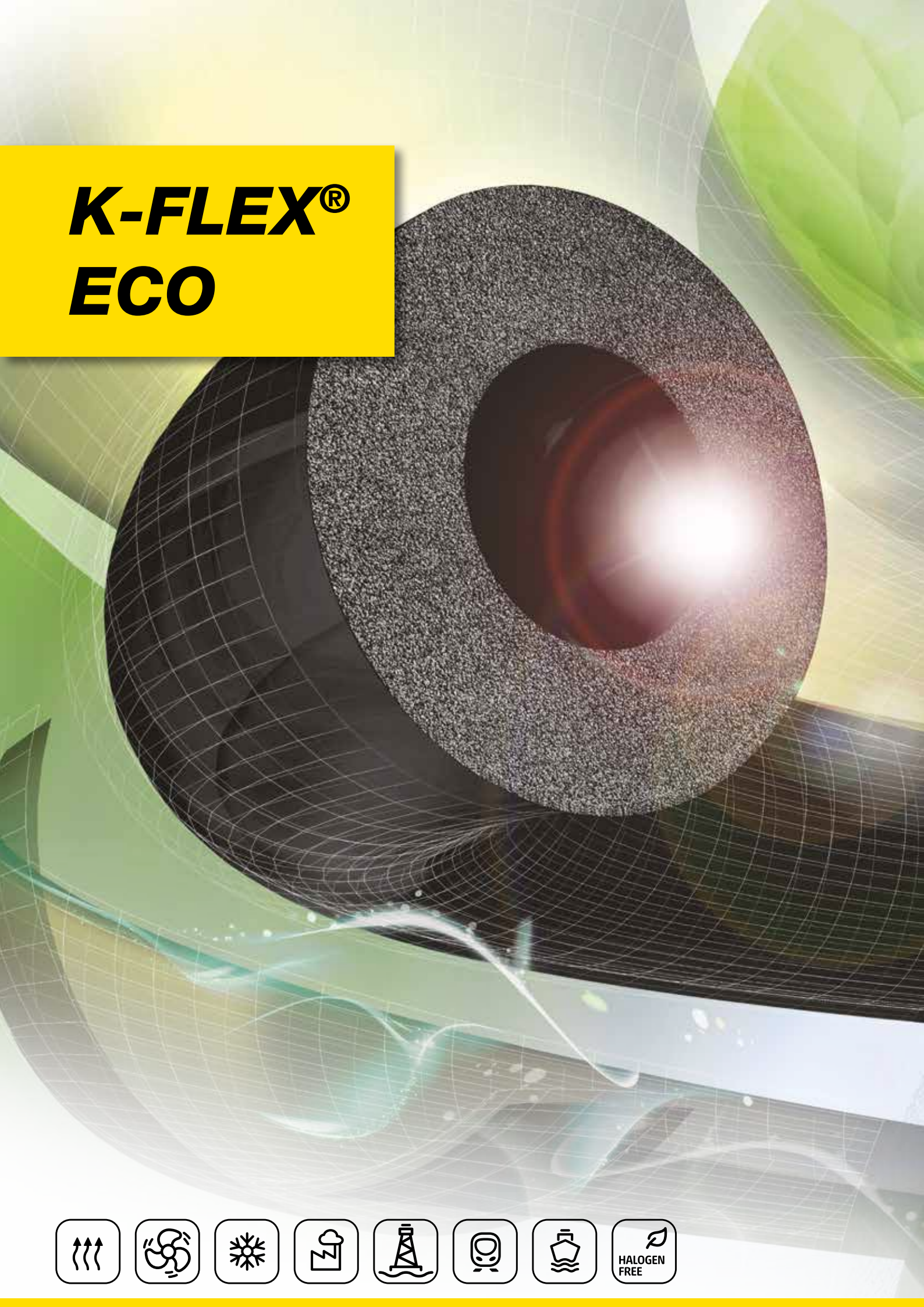
PROJECTS

PGE Arena, Polen



Fotograph: Mr. Dariusz Boczek

K-FLEX® ECO





K-FLEX® ECO

- Elastomeric insulation formulated and manufactured without the use of halogens
- Designed for areas with special safety requirements
- Approved for use in rail and marine industries
- Also available in green color.
  Request to our sales office the specific price list for the green version

Site

TECHNICAL DATA



K-FLEX® ECO ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -165 °C* to +130 °C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	-20 °C = 0,036 0 °C = 0,038 +20 °C = 0,040 +40 °C = 0,042	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 3000	EN 12086
Fire rating	K-FLEX® ECO Tubes: Euroclass D_L-s2, d0 K-FLEX® ECO Sheets: Euroclass E	EN 13501-1
Ecological data	Halogen free - PVC - CFC - HCFC Free	
Fume classification (toxicity)	IMO Resolution MSC 307 (88)	
Color	Black	
Approvals	Environmental Product Declarations EPD ECO-BAU and MINERGIE-ECO UL94	UNI ISO 14025 & EN 15804:2012+A2:2019
Railway approval	R1-HL2	EN 45545-2: 2013
Marine approval	CE-MARINE (Bureau Veritas) ABS (American Bureau of Shipping) DNV Lloyd's Register	

* For temperatures of less than -50 °C, please consult our technical office.

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

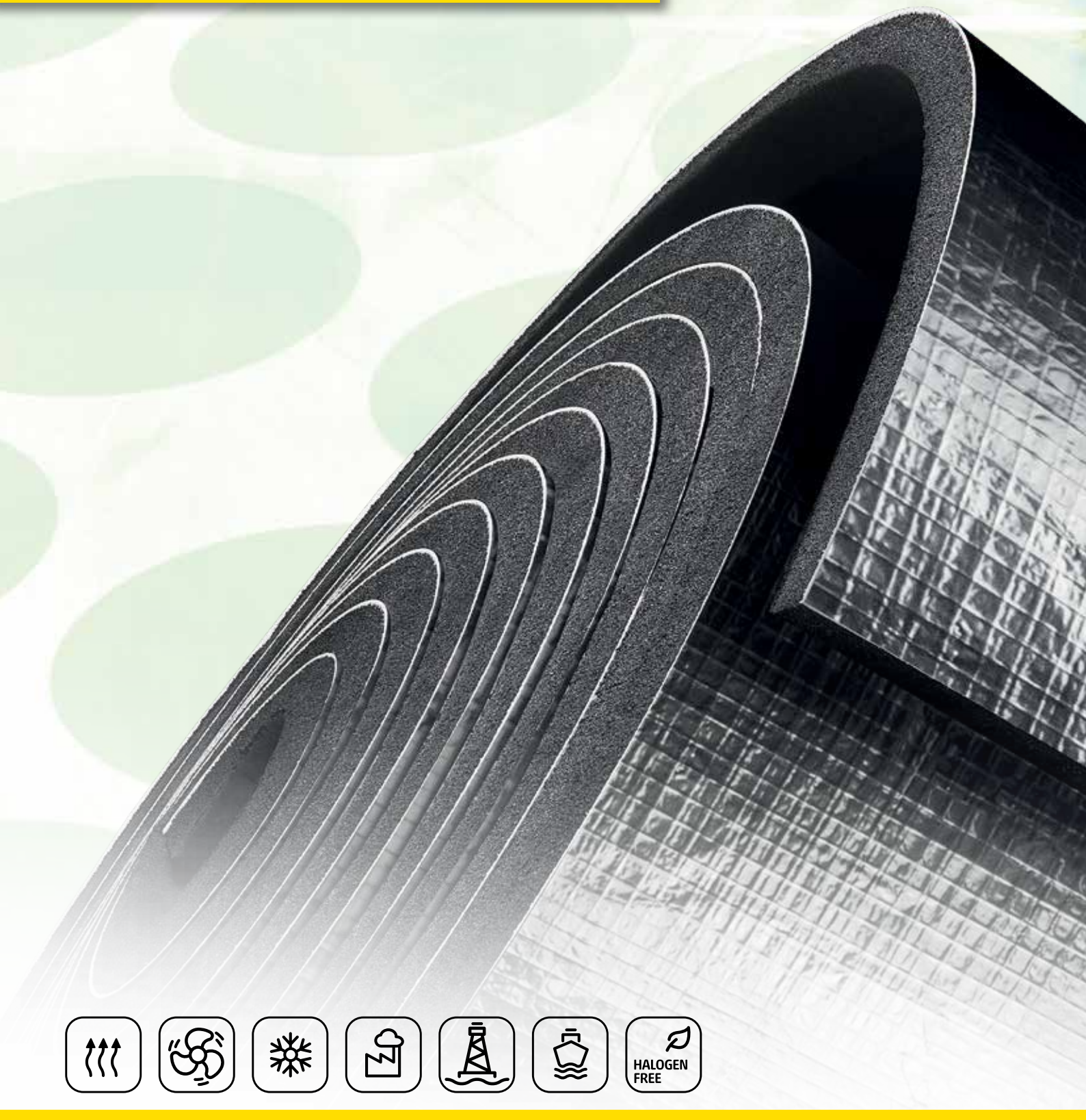
Manufacturing without thought for the resultant environmental impact is no longer acceptable. This attitude of awareness, now largely rooted in all areas of modern society, has triggered a significant innovation in models of development and consumerism.

K-FLEX® ECO, formulated and manufactured without halogens is a real solution to the reduction of energy consumption with respect to the environment. The composition of **K-FLEX® ECO** renders any fumes released during a fire, transparent and nontoxic.

K-FLEX® ECO ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® ECO - Tubes	2 m	9-13-19-25-32 mm	from 10 to 114 mm
		Thicknesses	**Height**
K-FLEX® ECO - Sheets		6-10-13-19-25-32-40-50 mm	1000 mm
K-FLEX® ECO - Adhesive sheets		6-10-13-19-25-32-40-50 mm	1000 mm

K-FLEX®
ECO ALU NET



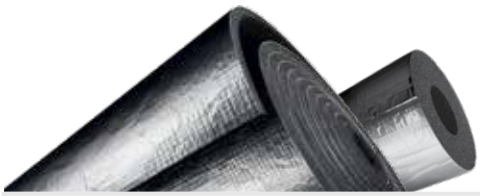


K-FLEX® ECO ALU NET

- Closed cell elastomeric foam, specifically designed for marine applications: CE-MARINE (Bureau Veritas).
- Formulated and manufactured without the use of halogens.
- High resistance to water vapor diffusion.
- Temperature range from - 40 °C to + 120 °C

Site

TECHNICAL DATA



K-FLEX® ECO ALU NET ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C* to +130°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,036 0°C = 0,038 +20°C = 0,040 +40°C = 0,042	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Water permeability	WS < 0.1%	EN 13472
Permeability μ	≥ 30.000	EN 12086
Ecological data	Without halogens, PVC, CFCs, HCFCs and Formaldehyde	
Marine approvals	CE-MARINE (Bureau Veritas) IMO Resolution - Lloyd's Register	
Fire requirements for shipbuilding	MSC 307(88)	

* For applications below -40°C please contact our Technical Department

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

Closed cell elastomeric insulation product free of halogens, PVC, CFC, HCFC and formaldehyde (K-FLEX® ECO) covered with a protective aluminum film reinforced with a fiberglass mesh specially designed for marine applications.

K-FLEX® ECO ALU NET, formulated and produced without halogens, is the concrete answer for limiting energy consumption while respecting the environment. The composition of K-FLEX® ECO ALU NET makes the fumes that could develop in the event of a fire, not very opaque and not very aggressive.

The K-FLEX® ALU NET film with aluminum structure reinforced with a fiberglass mesh, gives the K-FLEX® ECO insulating product an additional and very high barrier to the penetration of water vapor, allowing the system, if correctly installed, to maintain performance for a long time.

At the same time, it gives good mechanical protection to surface damage, to the action of marine and atmospheric agents, allowing an easy installation and maintenance.

K-FLEX® ECO ALU NET ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® ECO ALU NET - Tubes	1 m	13-19-25-32 mm	from 12 to 114 mm

	Thicknesses	Height
K-FLEX® ECO ALU NET - Sheets	3-6-9-13-19-25 mm	1000 mm
K-FLEX® ECO ALU NET - Adhesive sheets	3-6-9-13-19-25 mm	1000 mm

ACCESSORIES



K-FLEX® ECO ALU NET pipe support



K-FLEX® ECO ALU NET insulation tape



K-FLEX® ALU NET tape



K-FLEX® Adhesivi



Marine sealant

K-FLEX® ECO ALU PIPE SUPPORT



▸ Research has shown that non-insulated pipe supports are still a common thermal bridge on insulated pipe systems. Their effect is often underestimated. The K-FLEX® ECO ALU supports represent an easy solution to this problem in all insulated lines with the K-FLEX® ECO ALU NET system, proving to be a valuable aid in all naval installations.

The support for pipes K-FLEX® ECO ALU, specially designed for naval applications, has been designed to prevent possible thermal bridges in the connection points of the pipes, ensuring perfect insulation of the line even in correspondence with the fixings, thus helping to avoid onset of condensation or thermal dissipation phenomena.

The specific stratigraphy, together with the materials used, make it the ideal support to be used with the product K-FLEX® ECO ALU NET, of which it guarantees the same insulation performance, also having the same certification for naval use, thus being able to obtain a seamless insulation system even in the fixing points.

K-FLEX® SOLAR HT





K-FLEX® SOLAR HT

- Elastomeric insulation for high temperatures
- Ideal solution for industrial and solar systems
- Increased energy efficiency
- EPDM with UV protection
- Also available with protective coatings for adverse weather conditions

Site

TECHNICAL DATA



K-FLEX® SOLAR HT ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +150°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	0°C = 0,040 40°C = 0,044	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Fire rating	Euroclass E	EN 13501-1
Ecological data	Without CFCs and HCFCs	
Approvals	Environmental Product Declarations EPD	UNI ISO 14025 & EN 15804:2012+A2:2019

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

Elastomeric EPDM (Ethylene-Propylene Diene Monomer) rubber based insulation with excellent mechanical properties suitable for high temperatures. Good UV resistance.

The rational and convenient solution for solar panels and industrial processes up to 150 °C. A new, revolutionary box, tailor-made for the client, offering practical and economical advantages for use and distribution.



K-FLEX® SOLAR HT ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® SOLAR HT - Tubes	2 m	13-19-25 mm	from 10 to 89 mm
K-FLEX® SOLAR HT - Tubes in coils		13-19 mm	15-18-22 mm

	Thicknesses	Height
K-FLEX® SOLAR HT - Sheets	10-13-19-25-32 mm	1000 mm









PROJECTS

Zamo, Poland



K-FLEX®
PE







K-FLEX® PE

- Manufactured specifically for insulation of heating / air conditioning units and underfloor installations
- Excellent mechanical strength and resistance to compression
- Tear resistant
- Quick to install

Site

TECHNICAL DATA



K-FLEX® PE/PE PLUS ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +100°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	K-FLEX® PE: Euroclass D_L-s1, d0 K-FLEX® PE PLUS: Euroclass B_L-s1, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® PE COLOR/PE PLUS COLOR ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +100°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	K-FLEX® PE COLOR: Euroclass D_L-s1, d0 K-FLEX® PE PLUS COLOR: Euroclass B_L-s1, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® PE QUADRO/RECTANGULAR ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	+100°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	K-FLEX® PE QUADRO: Euroclass E K-FLEX® PE RECTANGULAR: Euroclass E	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® FONOMETAL ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	+90°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	Euroclass E	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

K-FLEX® PE is an extruded polyethylene closed cell insulation tube, available in different diameters and thickness
K-FLEX® PE is ideal for heat insulation of pipelines of heating systems, cold and hot water supply, ventilation and air conditioning, and equipment.

K-FLEX® PE PLUS is an extruded polyethylene closed cell insulation tube with an improved fire classification rating. This product fulfils all the highest building standards in term of fire reaction.
K-FLEX® PE PLUS is ideal for heat insulation of pipelines of heating systems, cold and hot water supply, ventilation and air conditioning, and equipment.

K-FLEX® PE QUADRO/ RECTANGULAR The specific hexagonal shape of the hole can support the installer pulling the pipe easier trough the insulation keeping at the same time the pipe well constrained in the quadro tube. The square shape of the QUADRO tube offers space-saving advantages and the rectangular shape of the RECTANGULAR tube additionally provides an increasied insulation to the area below.

K-FLEX® FONOMETAL is a polyethylene insulating product designed to insulate pipes in masonry works by reducing the noise transmitted by vibration.

K-FLEX® PE COLOR is a coextruded polyethylene closed cell insulation tube, available in different diameters and thickness, specifically designed for all that applications where an additional mechanical protection is required.
K-FLEX® PE COLOR is ideal for heat insulation of pipelines of heating systems, cold and hot water supply, ventilation and air conditioning, equipment and underfloor applications.

K-FLEX® PE PLUS COLOR is a coextruded polyethylene closed cell insulation tube with an improved fire classification rating, available in different diameters and thickness, specifically designed for all that applications where an additional mechanical protection is required. This product fulfils all the highest building standards in term of fire reaction.
K-FLEX® PE PLUS COLOR is ideal for heat insulation of pipelines of heating systems, cold and hot water supply, ventilation and air conditioning, equipment and underfloor applications.

K-FLEX® PE QUADRO/ RECTANGULAR is ideal for heat insulation pipelines, cold and hot water supply and equipment. Specifically designed for under floor application.

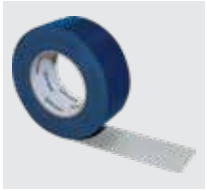
K-FLEX® FONOMETAL is designed to reduce the noise transmission of exhaust pipes in civil and industrial construction. The seamless structure also forms a stable surface on the inside, which makes it easy to slide over the pipe without extra sliding film and without the risk of tearing.

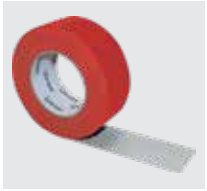
K-FLEX® PE ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® PE - Tubes	1 - 2 m	6-9-13-20-25-30 mm	from 15 to 114 mm
K-FLEX® PE PLUS - Tubes	2 m	6-9-13-20-25-30 mm	from 15 to 114 mm
K-FLEX® PE COLOR - Tubes and coils	2 m	6-9-13-20-25 mm	from 15 to 42 mm
K-FLEX® PE PLUS COLOR - Tubes	2 m	6-9-13-20-25 mm	from 15 to 42 mm
K-FLEX® PE QUADRO - Tubes	2 m	7 mm	from 15 to 35 mm
K-FLEX® PE RECTANGULAR - Tubes	2 m	25-26-27-38-46 mm	from 15 to 42 mm
K-FLEX® FONOMETAL - Tubes in coils	10 - 15 m	5-9 mm	from 42 to 160 mm

K-FLEX® PE COLOR available in **COILS** format for **4-6 mm** thickness

K-FLEX® ACCESSORIES



K-FLEX® CLOTH DUCT TAPE





K-FLEX® K 420 Glue



K-FLEX® GLUE DISPENSER

K-FLEX® SPIRAL







K-FLEX® SPIRAL

- Integrated air distribution and insulation in a single product
- Prevents heat loss and protects against condensation
- Contributes to better indoor acoustic comfort
- Lightweight, self-supporting and easy to install with standard fixings
- Durable, impact-resistant material that requires minimal maintenance
- Easy and quick connection

Site

TECHNICAL DATA



K-FLEX® SPIRAL ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +100°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	Euroclass D_L-s1, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

K-FLEX® SPIRAL represents a new concept in ventilation ducting, combining air distribution and insulation in one innovative solution. It is designed to ensure efficient airflow, reduce energy loss, and provide additional comfort to indoor environments.

Lightweight and easy to handle, this ducting system simplifies installation while guaranteeing long-lasting reliability.

Beyond thermal performance, its insulating properties also enhance acoustic comfort, helping to create quieter and healthier living spaces.

With its clever design and versatile application, K-FLEX® SPIRAL is the ideal solution for modern ventilation systems where efficiency, comfort and sustainability matter most.

RANGE

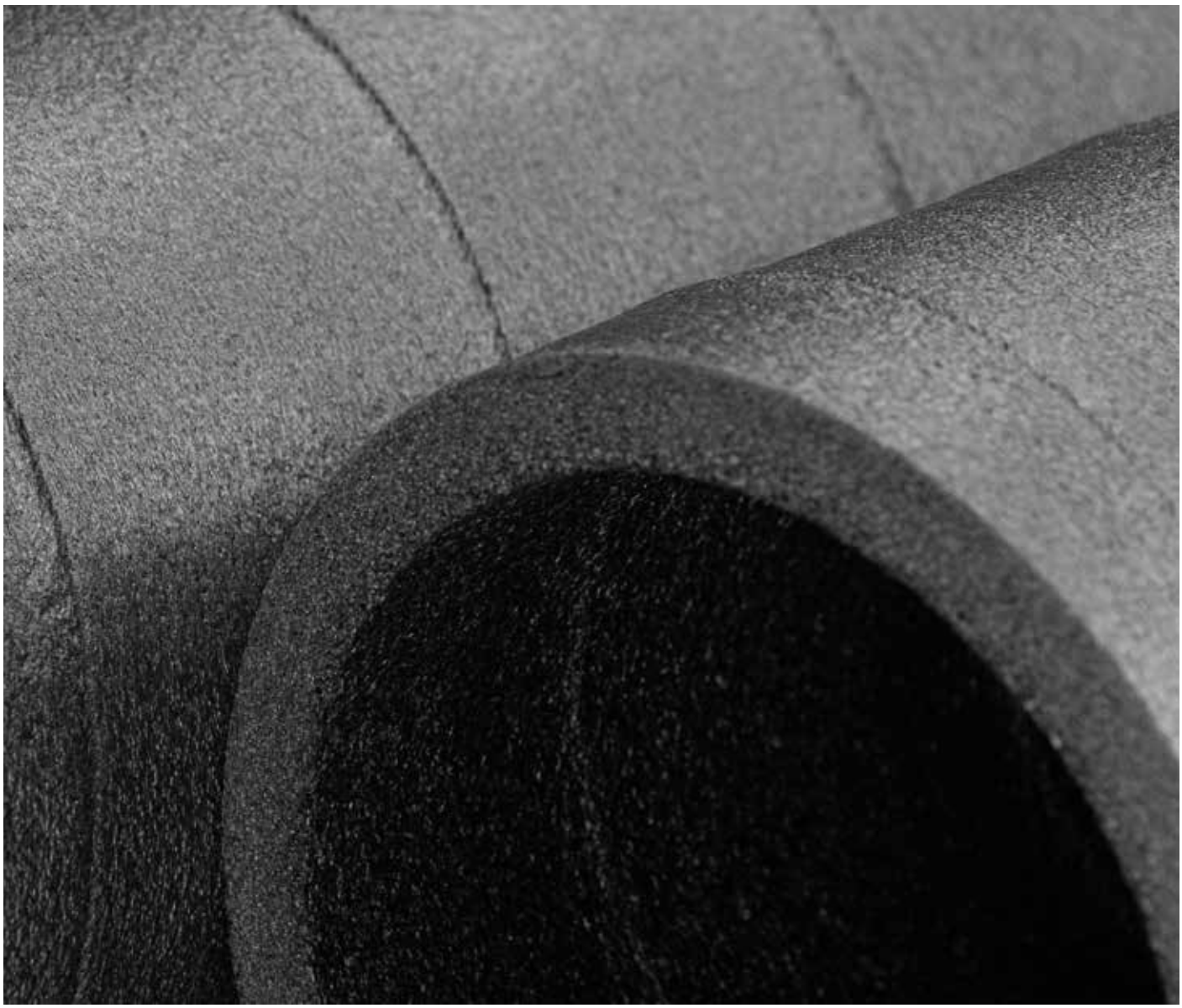
K-FLEX® SPIRAL ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® SPIRAL - Tubes	2 m	16 mm	125-150-160-180 mm
	Angle		**Diameters**
K-FLEX® SPIRAL - Elbow	30°		125-160 mm
	45°		125-160-180-200 mm
	90°		125-160-180-200 mm

ACCESSORIES



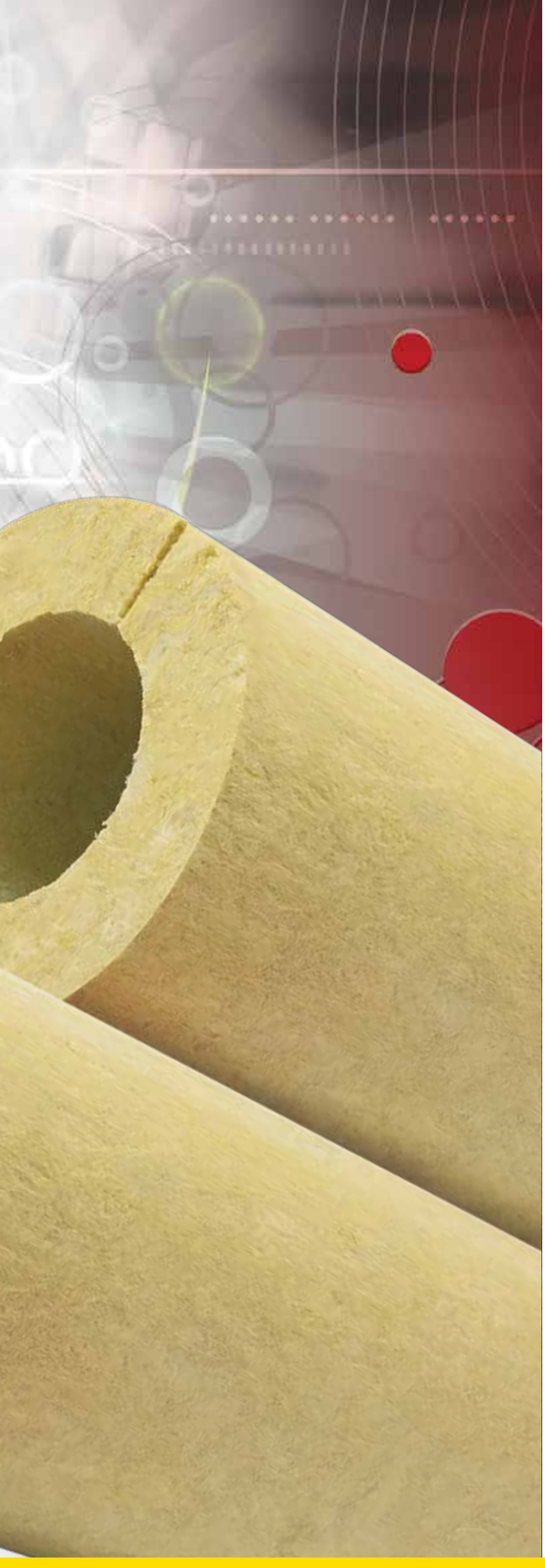
Smooth ALU adhesive tape designed for making joints and sealing on sanitary heating, ventilation or air conditioning pipes.



ALL-IN-ONE PERFORMANCE: AIR DISTRIBUTION, INSULATION, AND ACOUSTIC COMFORT. DESIGNED FOR EASY INSTALLATION, DURABILITY AND MINIMAL MAINTENANCE.

K-FLEX®
K-ROCK







K-FLEX® K-ROCK

- Products with uniform thickness in mineral wool
- Also available with ALU finishing
- Thermal and acoustic insulation in industrial applications
- Suitable for use on hot water, cold water and heating pipes, and various other high temperature insulation applications

Site

TECHNICAL DATA



K-FLEX® K-ROCK ▸ TECHNICAL DATA

Property	Value	Test method
Maximum service temperature	+600°C	EN 14706
Thermal conductivity λ W/(m•K)	+50°C = 0,039 +100°C = 0,046 +150°C = 0,056 +200°C = 0,067 +250°C = 0,081 +300°C = 0,096 +350°C = 0,115 +400°C = 0,135	EN ISO 8497
Water absorption	WS01 (≤ 1.00 kg/m²)	EN 13472
Fire rating	Euroclass $A1_L$	EN 13501-1
Silicon free	Manufactured without addition of silicone oil	

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® K-ROCK ALU ▸ TECHNICAL DATA

Property	Value	Test method
Maximum service temperature	+600°C	EN 14706
Thermal conductivity λ W/(m•K)	+50°C = 0,039 +100°C = 0,046 +150°C = 0,056 +200°C = 0,067 +250°C = 0,081 +300°C = 0,096 +350°C = 0,115 +400°C = 0,135	EN ISO 8497
Water absorption	WS01 (≤ 1.00 kg/m²)	EN 13472
Fire rating	Euroclass $A2_L$-s1, d0	EN 13501-1
Silicon free	Manufactured without addition of silicone oil	

K-FLEX® reserves the right to change data and technical requirements without notice.

DESCRIPTION

K-FLEX® K-ROCK is a pipe made of uncoated mineral wool, 1000mm in length. The product is fireproof and has a high geometric accuracy. The pipes are made with a longitudinal slit on one side and are semi-cut on the opposite inner side to facilitate mounting onto pipes.

K-FLEX® K-ROCK ALU fireproof mineral wool pipes, protected by an outer coating of reinforced aluminum with high resistance to water vapour. **K-FLEX® K-ROCK ALU** is recommended for thermal insulation of pipes conveying hot and cold fluids in buildings in residential, service and industrial sectors.

APPLICATIONS

K-FLEX® K-ROCK pipes are ideal for thermal and acoustic insulation applications.
K-FLEX® K-ROCK ALU pipes are ideal for pipework carrying hot and cold fluid in building facilities.

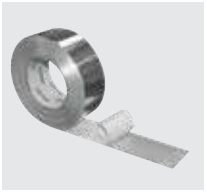
HANDLING AND STORAGE

K-FLEX® K-ROCK products are packaged to facilitate easy handling on most construction sites. They can be cut, made into pieces and easily assembled using standard tools. Do not store outside.

K-FLEX® K-ROCK ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® K-ROCK - Tubes	1 m	20-25-30-40-50-60-70-80-100-120 mm	from 15 to 273 mm
K-FLEX® K-ROCK ALU - Tubes	1 m	20-25-30-40-50-60-70-80-100-120 mm	from 15 to 273 mm

K-FLEX® ACCESSORIES



K-FLEX® ALU AR CW TAPE
Foil-Scrim backing, combined with cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper. Cold Weather version (low temperatures).



K-FLEX® MW KNIFE
Knife for fibrous materials, double blade roughness for different types and densities of mineral wool: hacksaw blade for high density panels and tubes and classic knife blade for tubes, rolls and light panels.

K-FLEX® PU

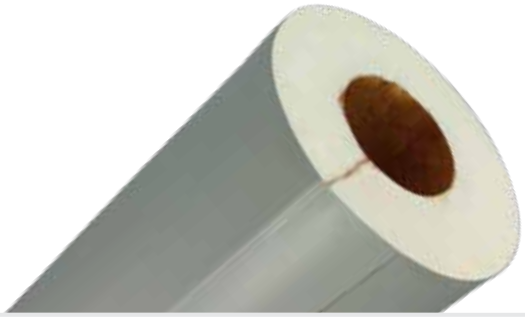




K-FLEX® PU

- Excellent quality combined with high economic savings.
- Quick and easy to install.
- Dimensional stability and precision from the adhesive closure of the grey PVC coating
- Excellent resistance to condensation and corrosion.
- Resistant to microbes, insects and mold.
- Expanded without the use of CFC and HCFC.

TECHNICAL DATA



K-FLEX® PU ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	Max +110°C	
Thermal conductivity λ W/(m•K)	+40 °C = 0,0349	EN ISO 8497
Fire rating	Euroclass E	EN 13501-1
Type of external finishing	PVC	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® PU ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® PU - Tubes	1 m	20-25-30-40 mm	from 15 to 114 mm

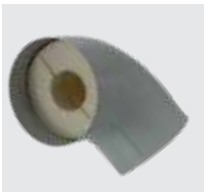
DESCRIPTION

K-FLEX® PU is an extremely versatile product based on rigid polyurethane foam, which, thanks to its excellent properties and technical performance, can be used in a wide variety of applications. The outer PVC sheathing provides additional protection for the PU insulation and offers both aesthetic and practical benefits (e.g. easily cleanable). This excellent product allows good thermal insulation with reduced thicknesses. By choosing K-FLEX® PU it is therefore possible to save energy by reducing volume and weight without having to give up more modern and efficient quality products.

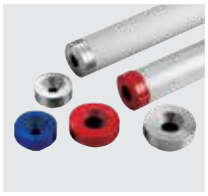
APPLICATIONS

Thermal insulating materials for buildings
Industrial, commercial and domestic cooling
Transport at controlled temperature
Aeraulic systems

K-FLEX® ACCESSORIES



K-FLEX® PU ELBOWS



K-FLEX® ALUMINIUM ENDCAPPING IN ROLLS



K-FLEX® INSULATION: DURABLE, RESISTANT AND EASY TO INSTALL

K-FLEX®
AL CLAD SYSTEM





K-FLEX® AL CLAD SYSTEM

- Versatile and flexible
- Reduced installation costs
- Economic system management
- Aesthetic finish
- UV and weather resistant
- Can be applied to any insulation system

Site

Video

TECHNICAL DATA

K-FLEX® AL CLAD JACKETING (COVERING FOIL) ▸ TECHNICAL DATA

Property	Value	Test method
Total weight	403 g/m²	
Thickness appr.	0,28 mm (± 0,05 mm)	
Width	1000 / 1065 / 1275 mm (± 2 mm)	
Tensile strength	> 35 N/mm²	EN ISO 527-3
Elongation at break	40%	EN ISO 527-3
Tear strength	82 N	EN ISO 527-3
Puncture diam 3,0mm	100 N	prEN 14477
LOI (Limited oxygen index)	40 % O²	
UV stability (internal weatherometer-test)	App. 11 years	
Sd-value	> 1500	
Temperature resist.	-25 to +75 °C	
Reflectivity	35%	
Emissivity	0,65	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® AL CLAD SYSTEM ▸ TECHNICAL DATA

Property	Value	Test method
Fire rating	K-FLEX® ST AL CLAD Tube: Euroclass C_L-s3, d0 Sheet: Euroclass D-s3, d0 K-FLEX® SOLAR HT AL CLAD Euroclass E K-FLEX® ECO AL CLAD Tube: Euroclass D_L-s2, d0 Sheet: Euroclass E	EN 13501-1

K-FLEX® reserves the right to change data and technical requirements without notice.



GENERAL INFORMATION



K-FLEX® AL CLAD SYSTEM TUBES

Tubes have a coating system with a high performance adhesive overlap coupled to **K-FLEX® ST** insulation. Suitable for both indoor and outdoor use, the **AL CLAD** foil has an aesthetic finish and forms an impermeable barrier protecting the insulation from UV radiation and adverse weather.
The complete system is easily installed with a significant reduction in labour time. Matching pre-formed trims complete the range.

K-FLEX® AL CLAD SYSTEM SHEETS

Sheets are composed of the **AL CLAD** coating system coupled with **K-FLEX® ST** insulation. Available in standard or self-seal, they are designed for use with conduits, ventilation ducts and large pipes. Their flexibility and ease of processing make this material especially suitable for awkward configurations and trims.

K-FLEX® AL CLAD SYSTEM ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® AL CLAD - Tubes	1 m	9-13-19-25-32-40-50 mm	from 15 to 160 mm
		Thicknesses	**Height**
K-FLEX® AL CLAD - Sheets		6-9-13-19-25-32-40-50 mm	1000/1500 mm
K-FLEX® AL CLAD - Adhesive sheets		6-9-13-19-25-32-40-50 mm	1000/1500 mm

ACCESSORIES



Preformed K-FLEX® AL CLAD elbows



Preformed elastomeric K-FLEX® elbows coupled with AL CLAD foil



Preformed “T” connections with AL CLAD foil



Preformed elastomeric K-FLEX® “T” connections coupled with AL CLAD foil



Preformed elastomeric K-FLEX® elbows



Preformed elastomeric K-FLEX® “T” section in standard sizes



AL CLAD foil, with or without adhesive



AL CLAD adhesive tape



K-FLEX® AL CLAD system pipe insulated supports



K-FLEX® AL CLAD system pipe insulated supports with collar

K-FLEX®
COLOR SYSTEM





K-FLEX® COLOR SYSTEM

- Colour finished insulation
- Aesthetic design
- Flexibile and easy of application
- Colour coding for different services

Site	Video

TECHNICAL DATA



K-FLEX® COLOR SYSTEM (FINISHING ONLY) ▸ TECHNICAL DATA

	VALUE						
Property	Black RAL 9005	White RAL 9002	Gray RAL 7035	Red RAL 3000	Blue RAL 5012	Tolerance	Test method
Specific weight	1,04 kg/l	1,20 kg/l	1,12 kg/l	1,07 kg/l	1,17 kg/l	± 0,2	Internal method
Dry weight %	35,81 kg/kg	49,67 kg/kg	42,92 kg/kg	42,29 kg/kg	46,61 kg/kg	± 0,2	Internal method
Dry volume %	34,43 kg/l	41,39 kg/l	38,32 kg/l	46,07 kg/l	39,84 kg/l	± 0,2	Internal method
Dry by volume %	31,98 l/l	32,21 l/l	31,35 l/l	34,92 l/l	31,59 l/l	± 0,2	Internal method
Viscosity F/4	25 second	25 second	25 second	25 second	25 second	± 0,2	Internal method
pH	8,30	8,30	8,30	8,30	8,30	± 0,2	
Dry microns (30um)	10,66 mq/kg	10,74 mq/kg	10,45 mq/kg	10,64 mq/kg	10,53 mq/kg		Internal method

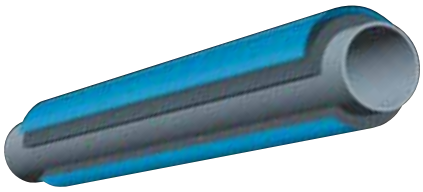
K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® COLOR SYSTEM ▸ TECHNICAL DATA

Property	Value	Test method
Fire rating	K-FLEX® ST COLOR Sheet: Euroclass C-s3, d0 Tube: Euroclass C_L-s3, d0 K-FLEX® SOLAR HT COLOR Euroclass E	EN13501-1

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION



K-FLEX® COLOR SYSTEM TUBES

Insulation tube with a protective factory-applied coating. The thin layer of colour facilitates cleaning and maintenance of the insulation. Flexible, easy to work with and install.



K-FLEX® COLOR SYSTEM SHEETS

K-FLEX® COLOR SYSTEM sheets are available in standard or self-seal. They are designed for use with conduits, ventilation ducts and large pipes. Their flexibility and ease of processing make this material especially suitable for awkward configurations and trims.



K-FLEX® COLOR SYSTEM ACCESSORIES

K-FLEX® offers a range of accessories especially for use with **K-FLEX® COLOR SYSTEM**. In addition to the standard pieces, curves, couplings and supports, adhesive tapes and coloured paints are available for re-touching and repairs.

K-FLEX® COLOR SYSTEM ▸ RANGE			
	Length	Thicknesses	Diameters
K-FLEX® COLOR - Tubes	2 m	9-13-19-25-32 mm	from 10 to 54 mm
K-FLEX® COLOR - Tubes	1 m	9-13-19-25-32 mm	from 57 to 160 mm
		Thicknesses	Height
K-FLEX® COLOR - Sheets		6-10-13-19-25-32-40-50 mm	1000/1500 mm
K-FLEX® COLOR - Adhesive sheets		6-10-13-19-25-32-40-50 mm	1000/1500 mm

COLOR RANGE

Stock colour range and product codes

RAL 7035 grey - Colour code **G0** RAL 9002 white - Colour code **G1** RAL 9011 black - Colour code **N0**

For the minimum order quantity per colour listed below, contact your sales office

RAL 5012 blue - Colour code **B0** RAL 6032 green - Colour code **V0** RAL 3000 red - Colour code **R0**

ACCESSORIES



K-FLEX® COLOR preformed “T“ fittings



K-FLEX® COLOR preformed elbows



K-FLEX® COLOR pipe support



K-FLEX® COLOR pipe support with collar



K-FLEX® COLOR paint

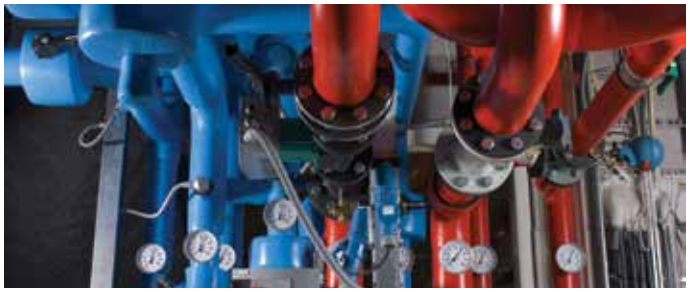


K-FLEX® COLOR anticonsation tape



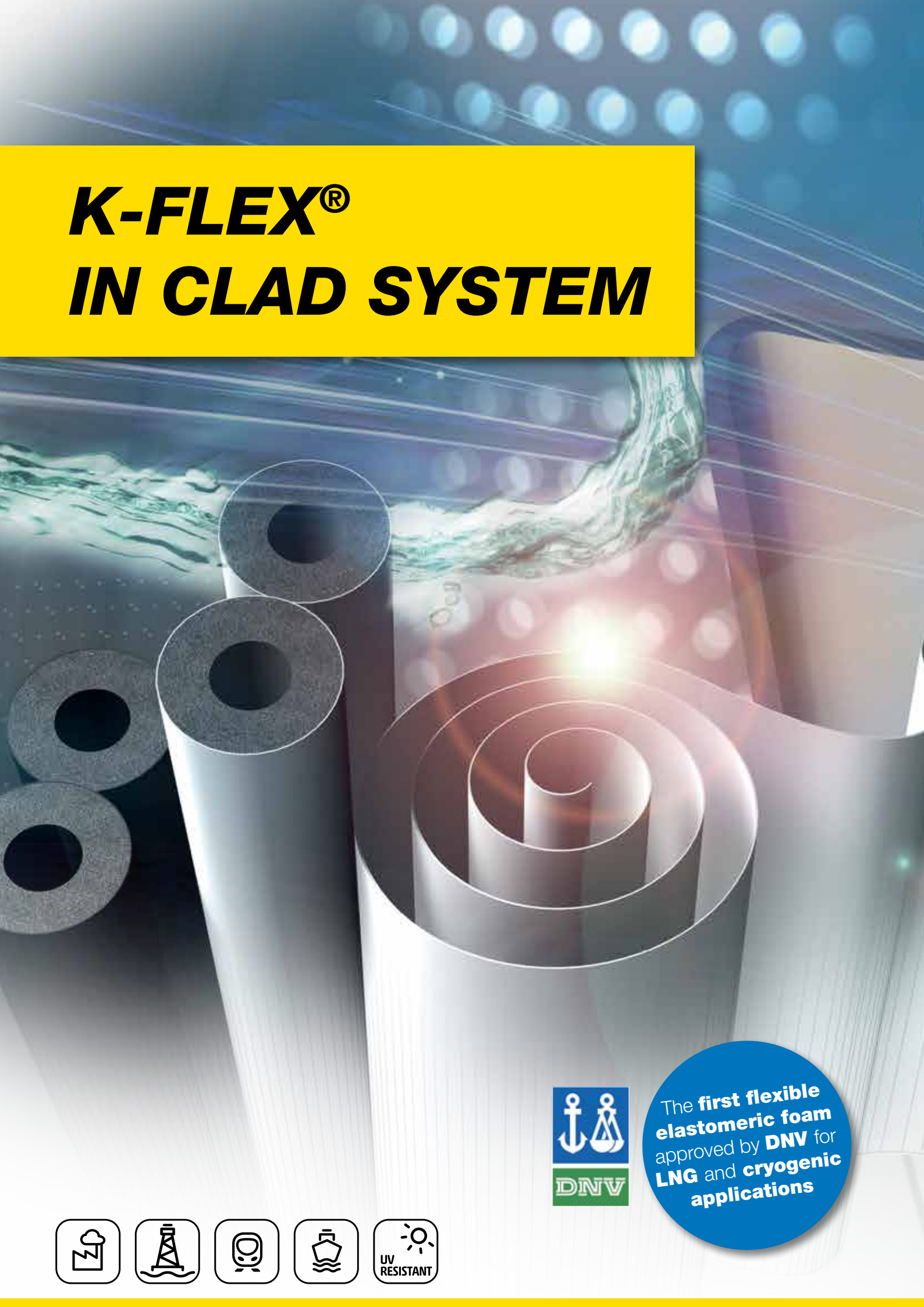
PROJECTS

Germany





K-FLEX®
IN CLAD SYSTEM



The **first flexible elastomeric foam** approved by **DNV** for **LNG** and **cryogenic applications**

UV RESISTANT





K-FLEX® IN CLAD SYSTEM

- Non-metallic flexible coating
- Designed for oil & gas and industrial use
- Developed for the most challenging environments
- High mechanical and chemical resistance
- Resistance to uv, sea salt, oil and other atmospheric agents
- Easy to install without special tools
- Full range of accessories
- Can be applied to any insulation system

Site	Video

TECHNICAL DATA

K-FLEX® IN CLAD SYSTEM ▸ TECHNICAL DATA

Property	Value	Test method
Material	Flexible polymeric barrier	
Colour	Grey and Black	
Thickness	1.2 mm (± 0.2)	
MAX Surface Temperature	80°C (176°F)	
MAX application temperature, IN CLAD System	105°C (221°F) 130°C (266°F)	IN CLAD with K-FLEX® ST IN CLAD with K-FLEX® ECO
MIN application temperature, IN CLAD System	-200°C (-328°F)	IN CLAD System with K-FLEX® ST tested at -163°C (-260°F) and approved with a statement of feasibility by DNV
Water Vapour Permeability	μ > 90.000	EN12086
Specic weight	1,8 (± 0.1 g/cm^3)	
Tensile Strength	>=6,9 MPa	ISO 37 (Typical value 7.5 MPa)
Elongation to break	>100%	ISO 37 (Typical value: elongation at 70%, elongation to break 300%)
Elastic Modulus	>=60 MPa	ISO 37 (Typical value 70 MPa)
Modulus 10%	>1.5 MPa	ISO 37
Peel adhesion	>50 KPa	ISO 2411
Shear strength	>20 N/25mm	ISO 34-1
Hardness	>=80 ShA	ISO 7619, ASTM D2240
UV Resistance	Extremely good	2 years of exposure in New River, Arizona (Stati Uniti d'America), come per ASTM G 7-97, no pitting, no cracking, no blistering
Salt Spray resistance	Extremely good	ISO 3768 / ASTM B 117-73, 480 hours. No color shade, no scaling, no blistering
Ozone resistance	Extremely good	ASTM D1171 72h 50ppmh 20%, no oxidation
Resistance to aging	Extremely good	ISO 4982, after 360h, 72MJ, elongation to break and modulus conform to specification
Resistance to oil	Extremely good	ISO 1817; after 72h immersion in oil IRM 903, elongation to break and modulus conform to specification
Impact resistance	Extremely good	EN12691; 1 kg, 20mm, 600mm
Health aspects	Dust and fiber free	
Spread o flame	Pass Pass	BS 476 pt 7 NF 92501
Fire propagation	Pass	BS 476 pt 6
Fire requirements for shipbuilding	Pass	IMO 61/67 pt 2 and 5
Approvals and Supervisions	CE Marine Mark Approved (MED, module B) Type approval by American Bureau of Shipping Type approval by Det Norske Veritas Type approval by Lloyd's Register	DNV LNG Statement of Feasibility ABS Approval
Other properties	The product is compliant to the requirements of Norsok standard R-004 ed 3 (par. 5.9 non metallic jacketing) Application: Product is flexible down to -20°C Fixing: neoprenic glue (K-FLEX® K414, K-FLEX® K420) Sealing: SMP sealant (Bostik Findley / Simson ISR 70-03 or ISR 70-05)	

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION



K-FLEX® IN CLAD SYSTEM TUBES

Insulation system specifically designed for aggressive environments such as offshore platforms, industrial, oil and petrochemical plants exposed to the sun and sea water and in situations where a high performance material is required. **IN CLAD SYSTEM** tubes are composed of **K-FLEX® ST** insulation coated with **IN CLAD** flexible polmeric film. The overlap facilitates installation and provides the coating system with a weather-proof seal. **K-FLEX® IN CLAD SYSTEM** prevents corrosion under insulation (CUI) in your installation.



K-FLEX® IN CLAD SYSTEM SHEETS

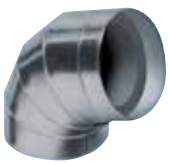
K-FLEX® IN CLAD SYSTEM sheets are ideal for insulating large industrial pipes, tanks, silos and awkwardly shaped equipment. The system is flexible, easy to work and does not require special tooling for cutting and gluing. Sealing the joints with silicone ensures total water- and weather-proofing. The protective **IN CLAD** foil is the ideal solution to protect thermal and acoustic insulation materials. It can be applied on different insulating materials such as mineral wool, PUR/PIR, FOAMGLASS, Aerogel, etc.

K-FLEX® IN CLAD SYSTEM ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® IN CLAD - Tubes	1 m	9-13-19-25-32-40-50 mm	from 15 to 168* mm
		Thicknesses	**Height**
K-FLEX® IN CLAD - Sheets		6-10-13-19-25-32-40-50 mm	1000 mm
K-FLEX® IN CLAD - Adhesive sheets		6-10-13-19-25-32-40-50 mm	1000 mm

* For diameters greater than 168mm, use sheet

ACCESSORIES



Preformed IN CLAD elbows - Gray



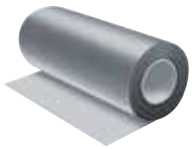
Preformed IN CLAD elbows - Black



Preformed “T” connections IN CLAD - Gray



Preformed “T” connections IN CLAD - Black



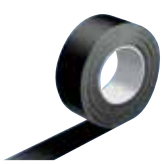
IN CLAD foil - Gray



IN CLAD foil - Black



IN CLAD tape - Gray



IN CLAD tape - Black



IN CLAD pipe support



IN CLAD pipe support with collar



Silicone

K-FLEX®
IC CLAD SYSTEM



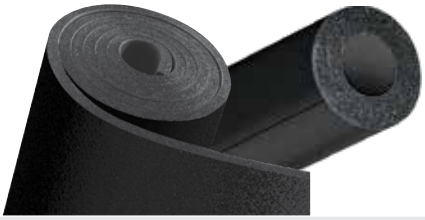


K-FLEX® IC CLAD SYSTEM

- Reinforced fiberglass coating
- Excellent mechanical resistance
- Resistant to high temperatures
- Easy to install without special tools
- Full range of accessories

Site

TECHNICAL DATA



K-FLEX® IC CLAD SYSTEM BLACK (COVERING ONLY) ▸ TECHNICAL DATA

Property	Value	Test method
Weave pattern	Plain	DIN ISO 9354
Area weight	214 g/m² (±5%)	DIN EN 12127
Tensile strenght Warp Weft	 500 N/cm 350 N/cm	
Finish content	4,00-6,00 %	DIN ISO 1887
Thickness	0,18 mm	DIN ISO 4603/E
Temperature Resistance Continuous load Short time resistance	 180°C 230°C	
Fire rating (with K-FLEX® ST)	IMO Res. A 653	
Certication (with K-FLEX® ST)	CE Marine Mark Approved, DNV, Lloyds Register	

K-FLEX® reserves the right to change data and technical requirements without notice.



K-FLEX® IC CLAD SYSTEM SILVER (COVERING ONLY) ▸ TECHNICAL DATA

Property	Value	Test method
Weave pattern	Plain	DIN ISO 9354
Area weight	204 g/m² (±5%)	DIN EN 12127
Tensile strenght Warp Weft	 500 N/cm 350 N/cm	
Finish content	1,00-3,00 %	DIN ISO 1887
Thickness	0,22 mm	DIN ISO 4603/E
Temperature Resistance Continuous load Short time resistance	 180°C 230°C	
Fire rating (with K-FLEX® ST)	IMO Res. A 653	
Certication (with K-FLEX® ST)	CE Marine Mark Approved, DNV, Lloyds Register	

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION



K-FLEX® IC CLAD SYSTEM TUBES

K-FLEX® IC CLAD SYSTEM tubes have an inorganic glass fibre fabric covering which is coupled to **K-FLEX® ST** insulation.
The **IC CLAD** foil is especially resistant to mechanical stress and can withstand temperature peaks up to 230°C. Available in silver (aluminum) or black.



K-FLEX® IC CLAD SYSTEM SHEETS

K-FLEX® IC CLAD SYSTEM sheets have **IC CLAD** foil backing coupled to **K-FLEX® ST** insulation. Available in standard or self-seal, they are designed for use with large pipes, tanks and silos. Their flexibility and ease of processing make this material especially suitable for awkward configurations and trims.

K-FLEX® IC CLAD SYSTEM ▸ RANGE

	Length	Thicknesses	Diameters
K-FLEX® IC CLAD - Tubes	1 m	9-13-19-25-32-40-50 mm	from 15 to 168* mm
		Thicknesses	**Height**
K-FLEX® IC CLAD - Sheets		6-10-13-19-25-32-40-50 mm	1000 mm
K-FLEX® IC CLAD - Adhesive sheets		6-10-13-19-25-32-40-50 mm	1000 mm

* For diameters greater than 168mm, use sheet

ACCESSORIES



Preformed IC CLAD elbows - Silver



Preformed IC CLAD elbows - Black



Preformed “T” connections IC CLAD - Silver



Preformed “T” connections IC CLAD - Black



IC CLAD tape - Silver



IC CLAD tape - Black



IC CLAD foil - Silver

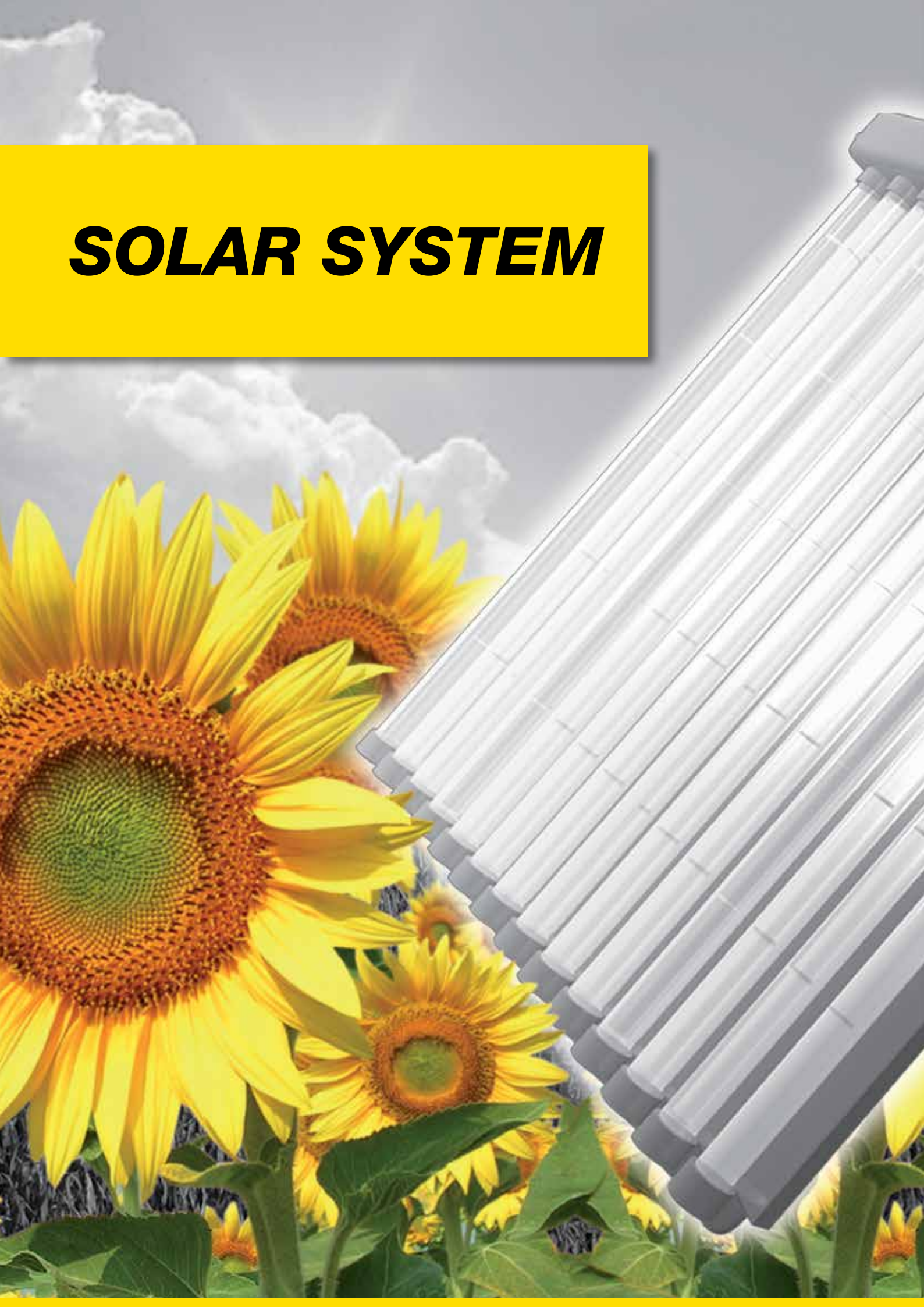


IC CLAD foil - Black



Silicone

SOLAR SYSTEM





K-FLEX® SOLAR SYSTEM

K-FLEX® offers a line of products designed specifically for solar heating, renewable energy sources used to produce hot water using solar energy.
The K-FLEX® TWIN SOLAR product range consists of a system to connect the hot water storage tank with the solar panel, composed of two corrugated stainless steel tubes (flow and return) with a sensor cable and a high temperature thermal insulator made of EPDM rubber coated with a film that provides both UV and mechanical protection. A range of fittings and mounting accessories make installation a fast and easy process.

K-FLEX® TWIN SOLAR SYSTEM



UV RESISTANT



K-FLEX® TWIN SOLAR SYSTEM

- Complete range of insulation products
- Fast & easy installation
- UV resistant
- Minimises heat loss

Site

TECHNICAL DATA



K-FLEX® SOLAR R ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +150°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	0°C = 0,040	EN ISO 8497
Fire rating	Euroclass E	EN 13501-1
UV Resistance	Good	EN 13859-1

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

The convenient solution for solar panels and industrial processes.

Recommended for solar panels and and low pressure steam or industrial process.

K-FLEX® SOLAR R is available in rolls, standard cartons, and half cartons.



K-FLEX® SOLAR R ▸ RANGE

	INSULATION THICKNESS	TUBE DIAMETER						
		12 MM	15 MM	18 MM	22 MM	28 MM	35 MM	LENGTH
K-FLEX® SOLAR R Roll	14 mm				•	•	•	
K-FLEX® SOLAR R Roll	20 mm		•	•	•	•	•	
K-FLEX® SOLAR R Standard carton	14 mm				•	•	•	2 m
K-FLEX® SOLAR R Standard carton	20 mm	•	•	•	•	•	•	2 m
K-FLEX® SOLAR R Half carton	14 mm				•	•	•	2 m
K-FLEX® SOLAR R Half carton	20 mm	•	•	•	•	•	•	2 m

TECHNICAL DATA

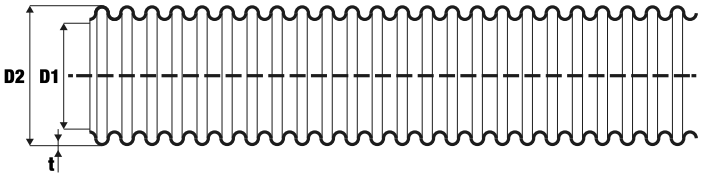


K-FLEX® SOLAR R ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +150°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	0°C = 0,040	EN ISO 8497
Fire rating	Euroclass E	EN 13501-1
UV Resistance	Good	EN 13859-1

K-FLEX® reserves the right to change data and technical requirements without notice.





ANULAR FLEXIBLE STAINLESS STEEL TUBE ▸ TECHNICAL DATA

Property	DN 16	DN 20	DN 25	Test method
Material	AISI 31 6L	AISI 31 6L	AISI 31 6L	
Outer diameter (D2)	21,3 mm (±0,2)	26,4 mm (±0,2)	31,8 mm (±0,4)	
Internal diameter (D1)	16,2 mm (±0,2)	20,9 mm (±0,2)	25,3 mm (±0,4)	
Material thickness (t)	0,18 mm	0,18 mm	0,20 mm	
Weight (%10=)	142 gr/m	185 gr/m	245 gr/m	
Surface (%5±)	0,0949 m²/m	0,1446 m²/m	0,1586 m²/m	
Volume (%5±)	0,2728 dm³/m	0,4271 dm³/m	0,6335 dm³/m	
Corrugation per 100 mm	22	21	19	
Bend radius static r min	25 mm	30 mm	35 mm	
Working pressure 20 °C	16 bar	10 bar	10 bar	
Nominal pressure	16 Pn	10 Pn	10 Pn	ISO 10380

K-FLEX® reserves the right to change data and technical requirements without notice.



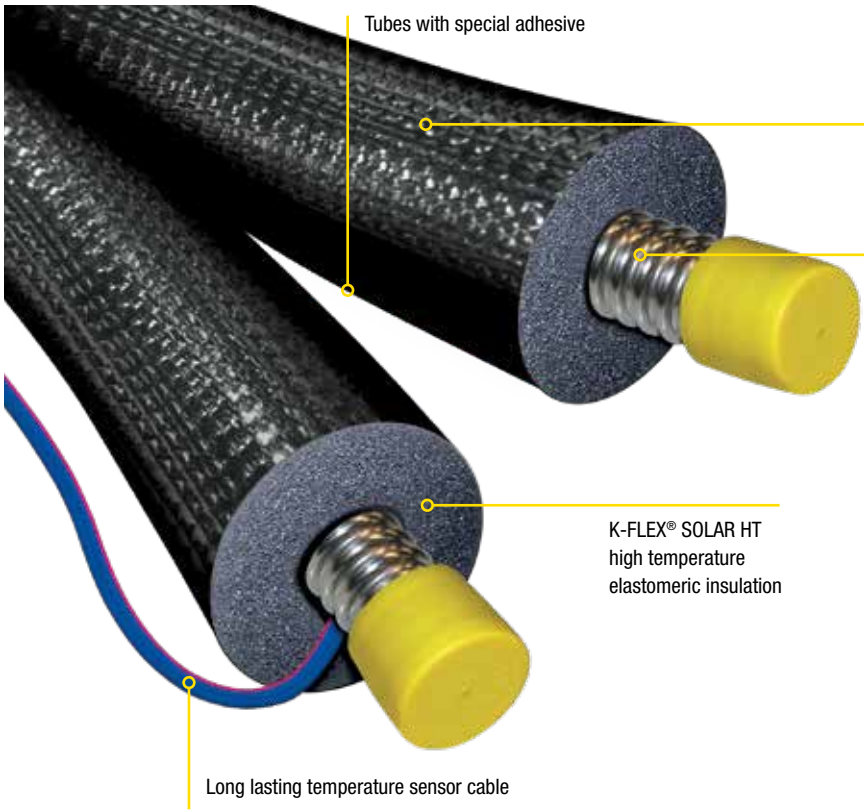
TEMPERATURE SENSOR WIRE ▸ TECHNICAL DATA

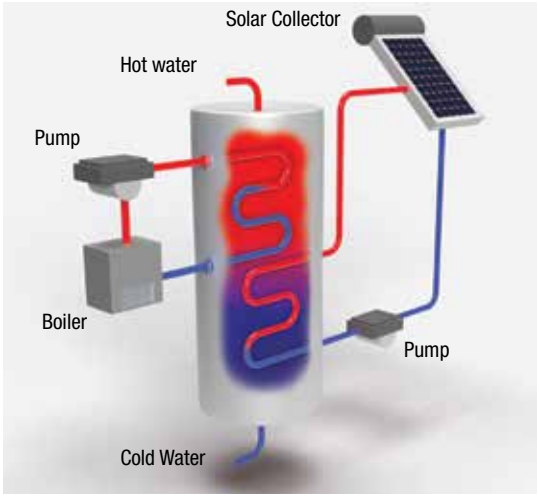
Property	Value
Temperature range	from -60°C to +200°C
Flexible Copper Ø 2x0.75 mm	CEI 20 - 19/15
Wire Insulation	Silicon Rubber
Rated Voltage	300/500 V
Electrical Resistance	26 Ohm/km

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

K-FLEX® TWIN SOLAR SYSTEM Is a solar thermal insulation system which is resistant to high temperatures. It facilitates the connection of a hot water tank to a solar panel; it is designed to minimise heat loss and be resistant to chemicals and weather.



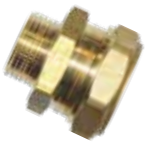


K-FLEX® TWIN SOLAR SYSTEM ▸ RANGE

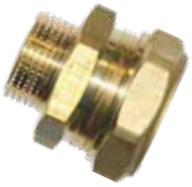
	STEEL TUBES		INSULATIONS	TUBE LENGTH			
	O.D.	WALL THICKNESS	THICKNESS	10 M	15 M	20 M	25 M
K-FLEX® TWIN SOLAR SYSTEM DN16	21,3 ±0,2 mm 21,3 ±0,2 mm	0,18 mm 0,18 mm	14 mm 20 mm	• •	• •	• •	• •
K-FLEX® TWIN SOLAR SYSTEM DN20	26,4 ±0,2 mm 26,4 ±0,2 mm	0,18 mm 0,18 mm	14 mm 20 mm	• •	• •	• •	• •
K-FLEX® TWIN SOLAR SYSTEM DN25	31,8 ±0,4 mm 31,8 ±0,4 mm	0,20 mm 0,20 mm	14 mm 20 mm		• •	• •	• •

COMPRESSION QUICK COUPLING





DN 16



DN 20



DN 25

Quick assembly without the need for tools or special equipment. Simple metal to metal seal.

Meets safety requirements and enhances performance by eradicating assembly mistakes.



EXTERNAL THREAD COUPLING
External Thread 1/2“ DN16
External Thread 3/4“ DN16
External Thread 3/4“ DN20
External Thread 1“ DN20
External Thread 1 1/4“ DN25



INTERNAL THREAD COUPLING
Internal Thread 1/2“ DN16
Internal Thread 3/4“ DN16
Internal Thread 3/4“ DN20
Internal Thread 1“ DN20



COUPLING WITH CU CLAMPING RING
Connection system Steel DN 16 Copper Ø 15 mm
Connection system Steel DN 16 Copper Ø 18 / 22 mm*
Connection system Steel DN 20 Copper Ø 18 / 22 mm*
Connection system Steel DN 25 Copper Ø 18 / 22 mm*
* Copper connection Ø 18 or 22 mm



DOUBLE COUPLING
Double Coupling system DN 16 - DN 16
Double Coupling system DN 20 - DN 20
Double Coupling system DN 25 - DN 25



STRAIGHT FITTING
DN 16 - Straight fitting Ø 22 mm
DN 20 - Straight fitting Ø 22 mm
DN 25 - Straight fitting Ø 22 mm
DN 16 - Straight fitting Ø 18 mm
DN 20 - Straight fitting Ø 18 mm
DN 25 - Straight fitting Ø 18 mm



OLIVE
Olive for compression coupling DN 16
Olive for compression coupling DN 20
Olive for compression coupling DN 25

ACCESSORIES



Flange Tool



Tube Clamp



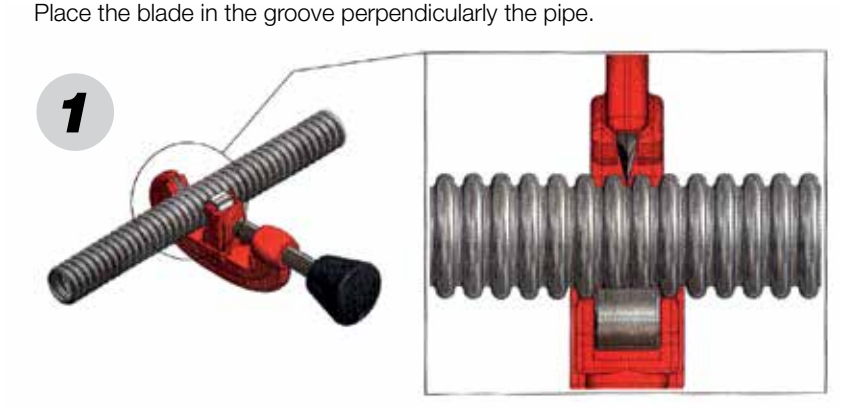
Nipple, Nut, Split Ring and Gasket



Oval Pipe Support

COMPRESSION QUICK COUPLING - ASSEMBLING

Place the blade in the groove perpendicularly the pipe.

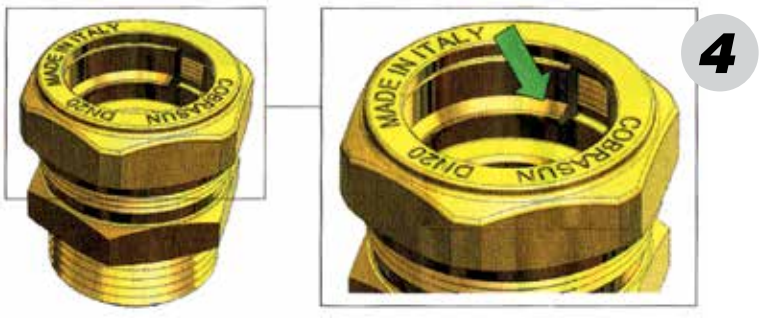




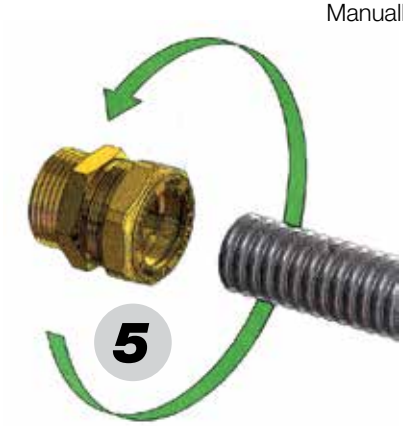
The cut must be clean and without burrs.

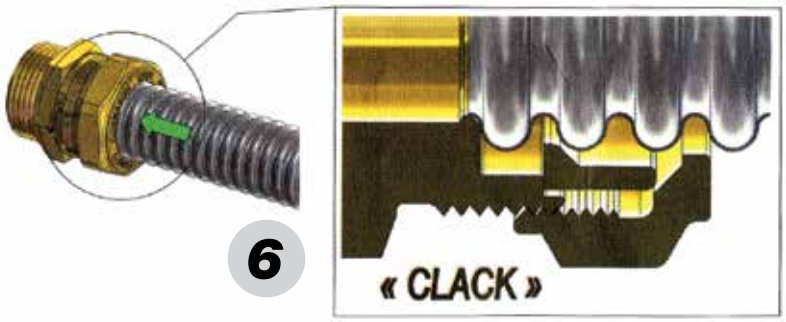


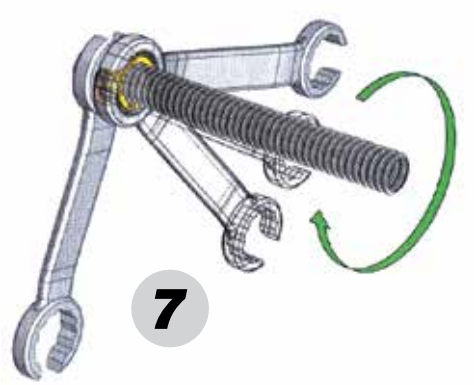
Do not disassemble the fitting: should this accidentally occur, the fool of the inner ring must be rested on the fitting body.

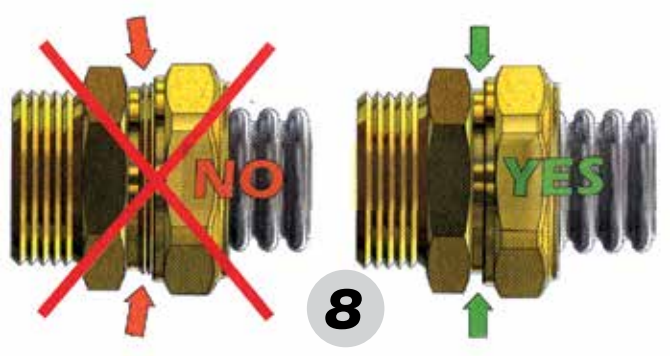


Manually loosen the bolt by approximately ½ rev, unless it is not already loose (fig.5)
Push the pipe into the fitting until the "CLACK" sounds (fig. 6).









K-FLEX® TWIN SOLAR SYSTEM SLIM



UV RESISTANT



K-FLEX® TWIN SOLAR SYSTEM SLIM

- Specifically designed for solar thermal panels
- UV resistant
- Saving on installation time
- Ideal for installations in confined spaces and under tiles

Site

TECHNICAL DATA

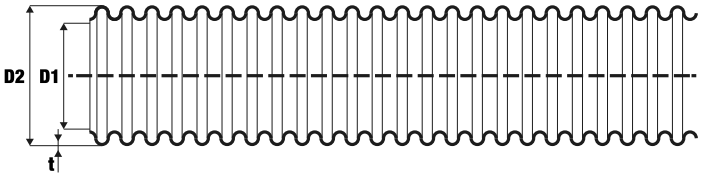


K-FLEX® INSULATION ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +150°C	EN 14706 EN 14707
Thermal conductivity λ W/(m•K)	0°C = 0,040	EN ISO 8497
Fire rating	Euroclass E	EN 13501-1
UV Resistance	Good	EN 13859-1

K-FLEX® reserves the right to change data and technical requirements without notice.





ANULAR FLEXIBLE STAINLESS STEEL TUBE ▸ TECHNICAL DATA

Property	DN 16	DN 20	DN 25	Test method
Material	AISI 31 6L	AISI 31 6L	AISI 31 6L	
Outer diameter (D2)	21,3 mm (±0,2)	26,4 mm (±0,2)	31,8 mm (±0,4)	
Internal diameter (D1)	16,2 mm (±0,2)	20,9 mm (±0,2)	25,3 mm (±0,4)	
Material thickness (t)	0,18 mm	0,18 mm	0,20 mm	
Weight (%10=)	142 gr/m	185 gr/m	245 gr/m	
Surface (%5±)	0,0949 m²/m	0,1446 m²/m	0,1586 m²/m	
Volume (%5±)	0,2728 dm³/m	0,4271 dm³/m	0,6335 dm³/m	
Corrugation per 100 mm	22	21	19	
Bend radius static r min	25 mm	30 mm	35 mm	
Working pressure 20 °C	16 bar	10 bar	10 bar	
Nominal pressure	16 Pn	10 Pn	10 Pn	ISO 10380

K-FLEX® reserves the right to change data and technical requirements without notice.



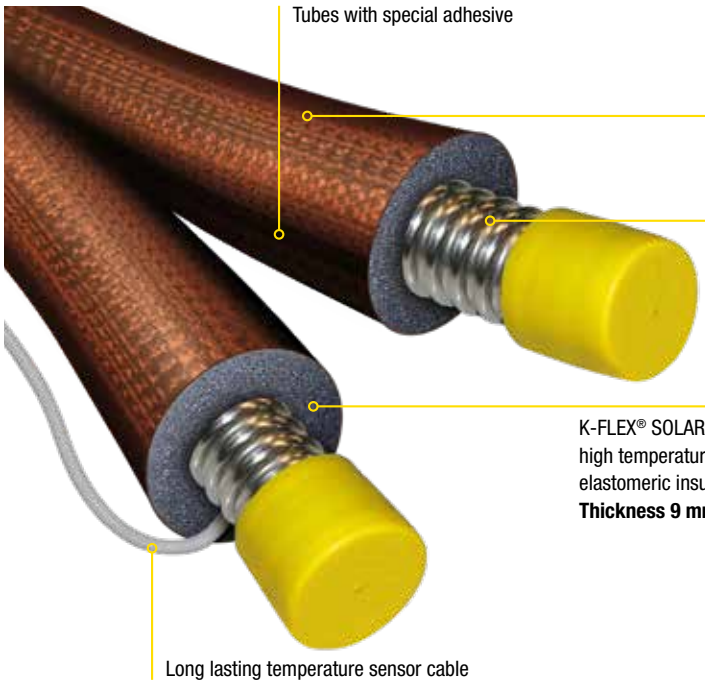
TEMPERATURE SENSOR WIRE ▸ TECHNICAL DATA

Property	Value
Temperature range	from -60°C to +200°C
Flexible Copper Ø 2x0.75 mm	CEI 20 - 19/15
Wire Insulation	Silicon Rubber
Rated Voltage	300/500 V
Electrical Resistance	26 Ohm/km

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

Thermal insulation systems for solar power with resistance to high temperatures. For connecting the hot water storage tank with the solar panel saving on installation time. Designed to minimise heat loss. Good chemical resistance and weatherproof. Ideal for roof space and passages.



K-FLEX® TWIN SOLAR SYSTEM SLIM ▸ RANGE

	STEEL TUBES	INSULATION	TUBE LENGTH							COILS WEIGHT
	DN	THICKNESS	10 M	15 M	20 M	25 M	50 M	100 M	150 M	
K-FLEX® TWIN SOLAR SYSTEM SLIM Tubes	16	9 mm	•	•	•	•				
	20	9 mm	•	•	•	•				
	25	9 mm		•		•				
K-FLEX® TWIN SOLAR SYSTEM SLIM Coils	16	9 mm					•	•	•	45 - 105 - 135 kg
	20	9 mm					•	•	•	55 - 110 - 120 kg
	25	9 mm					•	•		55 - 105 kg

K-FLEX® DE-REELER AND MANUAL DE-REELER





Thermal insulation systems for solar power with resistance to high temperatures. For connecting the hot water storage tank with the solar panel saving on installation time. Designed to minimise heat loss. Good chemical resistance and weatherproof. Ideal for roof space and passages.

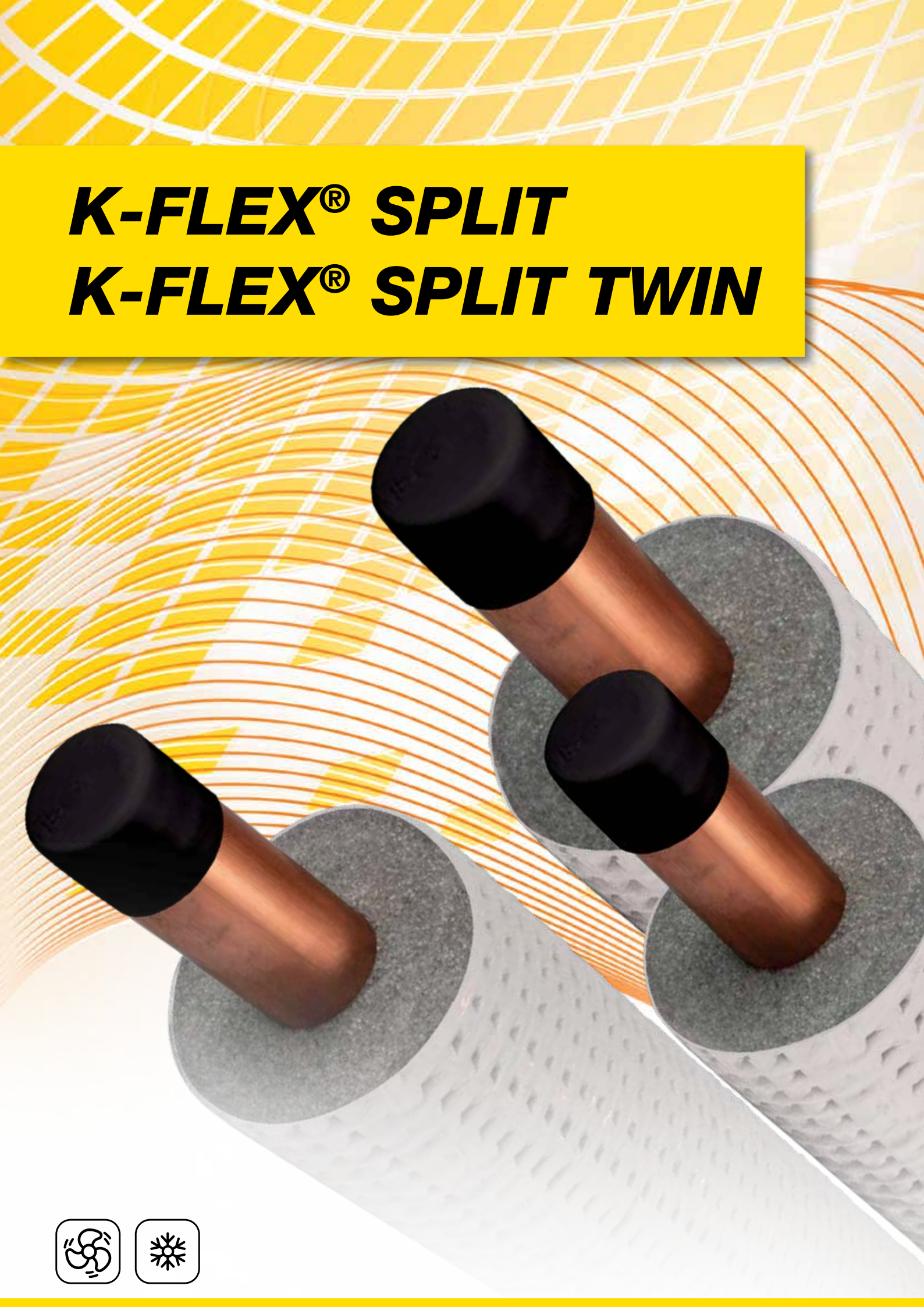
De-reeler for the production of K-FLEX® TWIN SOLAR SLIM rolls of variable dimensions. Designed and built for fast and easy operation. An ideal tool for precision cutting; also suitable for use on construction sites, in warehouses and retail outlets.

MACHINE PARTS:
FRAMEWORK – Designed to use K-FLEX® TWIN SOLAR SYSTEM SLIM drums.
CUTTING DISC – to enable the tube to be cut to the desired length.
METRE COUNTER – For accurate measurement of lengths cut to the customer's own specification.
RE-REELER – Ratchet system to facilitate re-coiling the product in the required lengths.

Machine dimensions: 2370 mm x 1200 mm x 1350 mm.

K-FLEX® MANUAL DE-REELER
Suitable for rolls up to 150m long.

K-FLEX® SPLIT
K-FLEX® SPLIT TWIN





K-FLEX® SPLIT/SPLIT TWIN

- Preinsulated copper tubes
- Available in single or double tube version

Site

TECHNICAL DATA



K-FLEX® PE PLUS COLOR ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +100°C	EN 14707
Thermal conductivity λ W/(m•K)	+10°C = 0,036 +40°C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	Euroclass B_L-s1, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

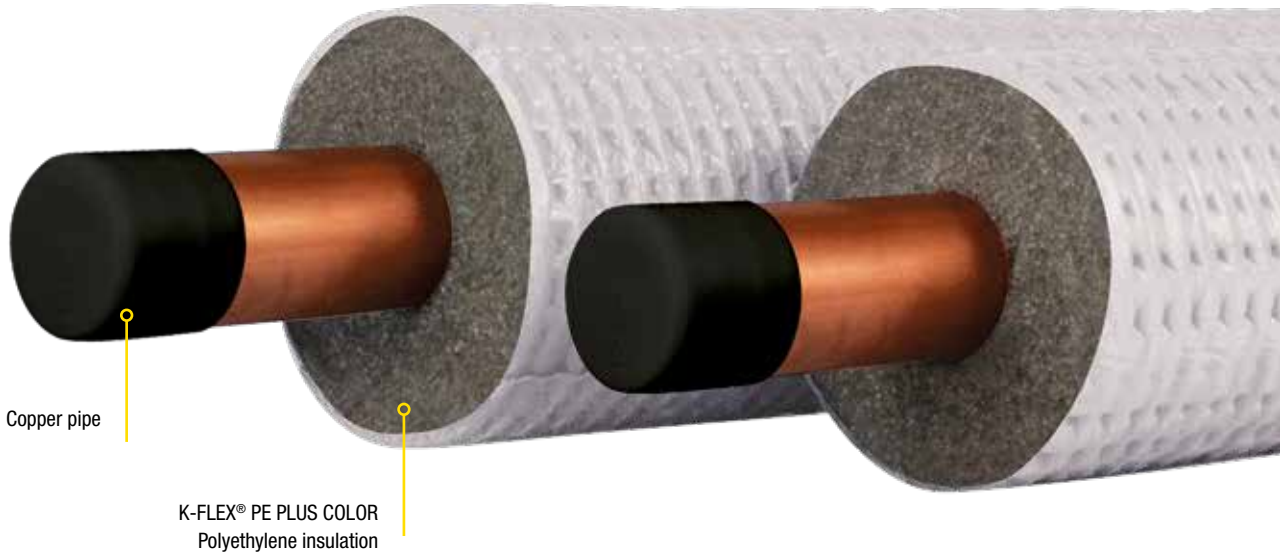
K-FLEX® reserves the right to change data and technical requirements without notice.

DESCRIPTION

K-FLEX® SPLIT/SPLIT TWIN is a reliable pre-insulated system solution to connect the indoor and outdoor units of split and multi-split air-conditioning systems. The system consists of copper pipe(s) and insulation material (PE). Dimensions and features according to EN 12735-1.

APPLICATIONS

Split and multi-split air-conditioning systems and cooling counters.



K-FLEX® SPLIT ▸ RANGE

	Length	Pipe diameter Inches/mm		Insulation Thicknesses mm
K-FLEX® SPLIT - Tubes	25 - 50 m	From 1/2" to 7/8"	From 6,35 to 22,23 mm	9 mm

K-FLEX® SPLIT TWIN ▸ RANGE

	Length	Pipe diameter Inches/mm		Insulation Thicknesses mm
K-FLEX® SPLIT TWIN - Tubes	20 m	From 3/8" to 1/2"	From 6,35 to 12,70	9 mm





Contact our Customer Service for availability in other colors.

K-FLEX®
K-FONIK SYSTEM





K-FLEX® K-FONIK SYSTEM

- Acoustic insulation of waste and rainwater drainage pipes
- Acoustic insulation of industrial pipes, civil and industrial machinery
- Solutions for traditional brick dividing walls and dry construction systems (plasterboard)
- Underfloor solutions
- Applications in shipbuilding and rail

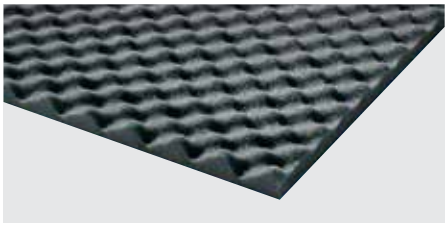
Site

GENERAL INFORMATION

Whether at home, work or leisure, most of our time is spent inside buildings, so it is important that we feel comfortable. The optimum environment is created from a combination of the correct ambient temperature, humidity and lighting, access to necessary resources and suitable acoustic insulation. All these factors have to be taken into consideration when designing buildings, and will also have a direct bearing on the build cost and final project value.

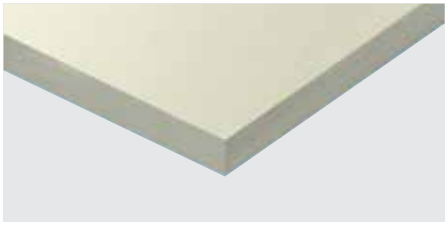
K-FLEX® offers good value high performance acoustic solutions to meet the demands of today's buildings (both new-build and renovation projects) with high quality, excellent durability and optimum design, complying with the required regulations.

K-FLEX® products are manufactured to the highest specifications using high quality durable materials and finishes with excellent performance qualities.



SOUND ABSORPTION MATERIALS

To absorb and dissipate sound energy reducing its reflection from the source.



SOUND INSULATION MATERIALS

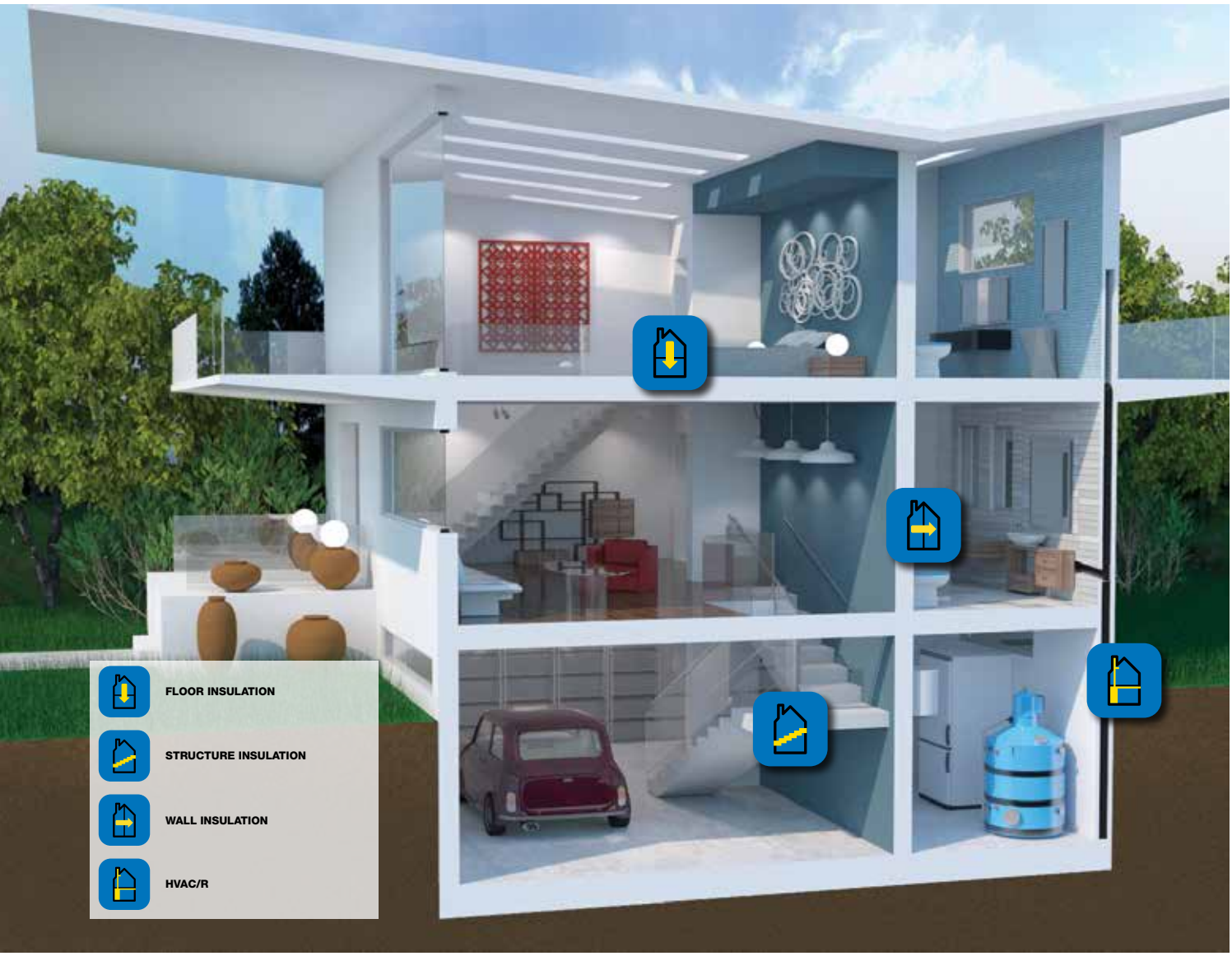
To isolate airborne noise and prevent its migration.



DAMPING MATERIALS

To dampen noise produced by vibrations from sheets, panels and covers.

APPLICATION EXAMPLES BUILDING





PROJECTS

Poland





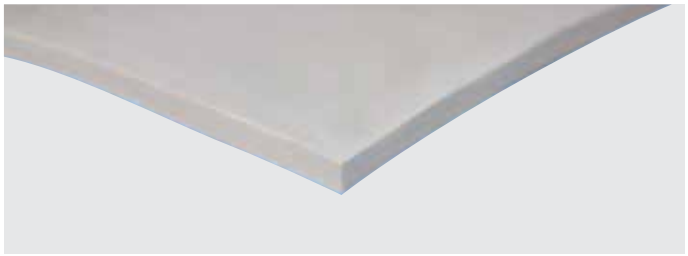
K-FLEX®
K-FONIK GK / GV

High-density elastomeric acoustic insulating panel for building, OEM and industrial applications. **The product is lead-free and therefore does not represent a health risk**.

K-FLEX® K-FONIK GK is a high density elastomeric material based on partially reticulated polymers with viscoelastic properties designed for acoustic insulation applications. Installed as a mass barrier, its special sound insulation characteristics make it an excellent product for insulation of walls and ceilings in civil applications, pipe insulation in industrial applications and damping reduction in OEM applications.

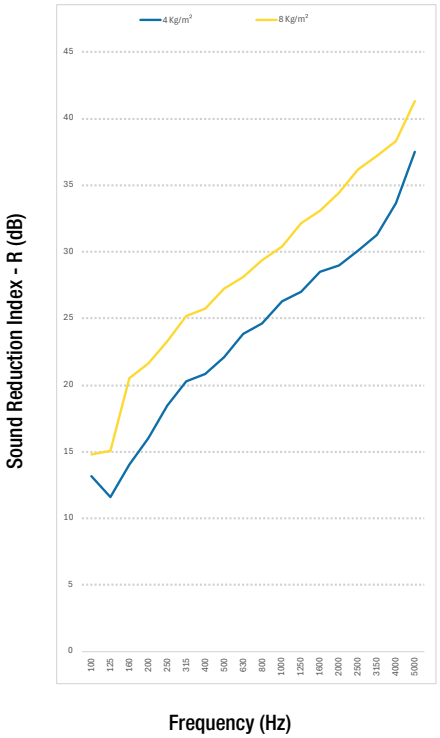
K-FLEX® K-FONIK GV is a high density elastomeric material based on partially reticulated polymers and fireproof mineral fillers.
Its viscoelastic properties make it ideal for acoustic insulation in shipbuilding and railway applications.







ACOUSTIC PERFORMANCE



Freq. (Hz)	K-FLEX® K-FONIK GK 4 Kg/m² R (dB)	K-FLEX® K-FONIK GK 8 Kg/m² R (dB)
100	13,2	14,8
125	11,6	15,1
160	14,0	20,5
200	16,0	21,6
250	18,5	23,3
315	20,3	25,2
400	20,8	25,7
500	22,1	27,2
630	23,8	28,1
800	24,6	29,4
1000	26,3	30,4
1250	27,0	32,1
1600	28,5	33,1
2000	29,0	34,4
2500	30,1	36,2
3150	31,3	37,2
4000	33,6	38,3
5000	37,5	41,3

K-FLEX® K-FONIK GK 4 Kg/m²: R_w (C;C_{tr})=26(-1;-4)dB
K-FLEX® K-FONIK GK 8 Kg/m²: R_w (C;C_{tr})=31(-1;-4)dB

APPLICATION

K-FLEX® K-FONIK GK is ideal for sound insulation of walls, ceilings, acoustic cabins, drainage systems, OEM sound insulation applications, etc.

K-FLEX® K-FONIK GV is ideal for the railway and shipbuilding industries.

RANGE

K-FLEX® K-FONIK GK
from 4 to 8 Kg/m²
High-density elastomeric material

K-FLEX® K-FONIK GV
from 4 to 8 Kg/m²
High-density elastomeric material

Please see the price list for the full range

K-FLEX® K-FONIK GK ▸ TECHNICAL DATA

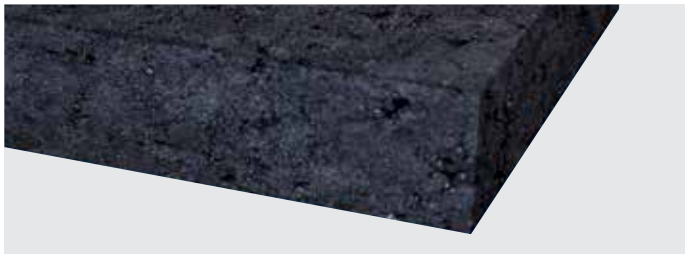
Property	Value	Test method
Material	High density elastomeric material	
Fire rating	B - s3,d0[1], IMO A653 (CE MARINE)[2], FMVSS 30[2]	EN 13501
Temperature	-40°C +70°C	
Dimensions	1000 x 2000 mm; 1200 x 2000 mm; 1500 x 2000 mm - Roll 25 or 50 m	
Surface	Smooth[3]	
Weight	from 4 kg/m² to 8 kg/m²	
Base colour	Black (GK) White (GV)	
Density	2000 kg/m³ (±10%)	

[1] Only for K-FLEX® K-FONIK GK on request [2] Only for K-FLEX® K-FONIK GV
[3] Different finishes available: ALU and non-woven fabric

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
K-FONIK OPEN CELL

K-FLEX® K-FONIK OPEN CELL is an open cell Flexible Elastomeric Foam designed for sound absorption.
Its viscoelastic properties, open cell structure and good air flow resistance make it excellent for acoustic insulation in building, HVAC/R, pipes and industrial applications. It combines excellent acoustic performances and insulation characteristics.

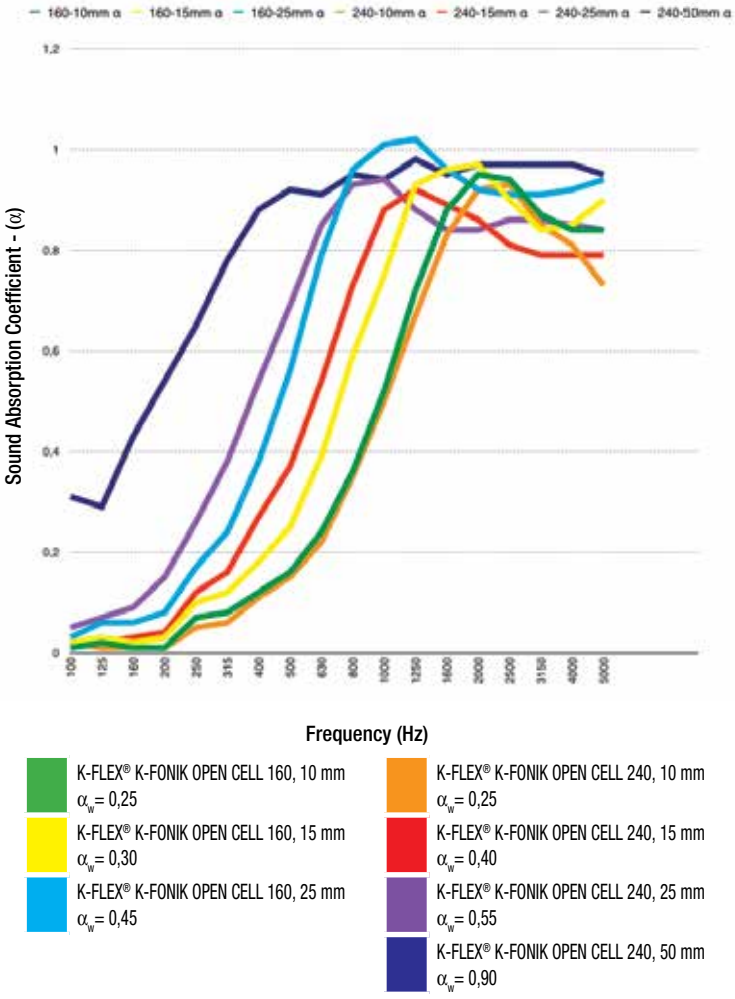




APPLICATION

K-FLEX® K-FONIK OPEN CELL is ideal for sound absorption application; industrial pipes, building, OEM products and HVAC/R.

ACOUSTIC PERFORMANCE



- K-FLEX® K-FONIK OPEN CELL 160, 10 mm α_w = 0,25
- K-FLEX® K-FONIK OPEN CELL 160, 15 mm α_w = 0,30
- K-FLEX® K-FONIK OPEN CELL 160, 25 mm α_w = 0,45
- K-FLEX® K-FONIK OPEN CELL 240, 10 mm α_w = 0,25
- K-FLEX® K-FONIK OPEN CELL 240, 15 mm α_w = 0,40
- K-FLEX® K-FONIK OPEN CELL 240, 25 mm α_w = 0,55
- K-FLEX® K-FONIK OPEN CELL 240, 50 mm α_w = 0,90

RANGE

K-FLEX® K-FONIK OPEN CELL
160 - 240

from 10 to 350 mm

Please see the price list for the full range

K-FLEX® K-FONIK OPEN CELL ▸ TECHNICAL DATA

Property	Value	Test method
Material	Flexible elastomeric foam open cell	
Density	K-FLEX® K-FONIK OPEN CELL 160: ≥ 100 kg/m³ K-FLEX® K-FONIK OPEN CELL 240: 240 kg/m³ (-20 / +120 kg/m³)	
Thermal conductivity	K-FLEX® K-FONIK OPEN CELL 240: 0,056 W/(m•K) K-FLEX® K-FONIK OPEN CELL 160: 0,048 W/(m•K	EN 12667
Fire rating	C-s3,d0	EN 13501-1
Temperature	-40°C +85°C	
Thickness	from 10 to 500 mm	
Base colour	Black	
Modulus (MPa)	22 ± 3.7 (160) 57.7 ± 8.0 (240)	
Elongation to break (%)	114 ± 33 (160) 140 ± 47 (240)	
Insertion Loss	K-FLEX® K-FONIK OPEN CELL 160: 10mm Rw=5 dB 15mm Rw=8 dB 25mm Rw=9 dB K-FLEX® K-FONIK OPEN CELL 240: 10mm Rw=8 dB 15mm Rw=10 dB 25mm Rw=14 dB	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
K-FONIK ST GK



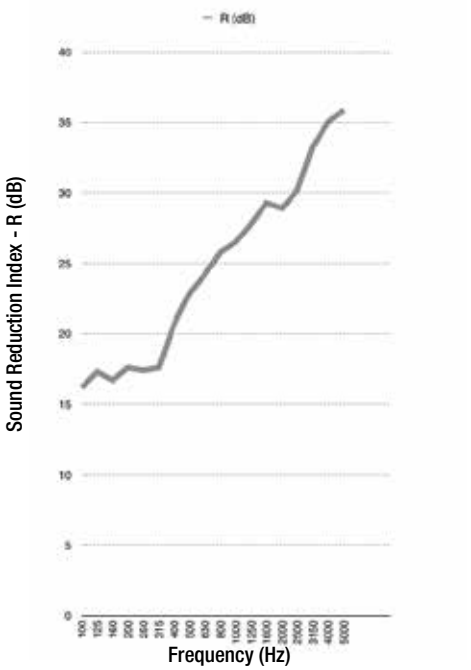


Smooth elastomeric sound insulation panel in various thicknesses, coupled with a high density elastomeric sheet.
The product is lead-free and therefore does not represent a health risk.
K-FLEX® K-FONIK ST GK combines the features of K-FLEX® K-FONIK GK with a layer of our elastomeric K-FLEX® ST.

APPLICATION

K-FLEX® K-FONIK ST GK is ideal for sound insulation of walls, ceilings, acoustic cabins, drainage systems, OEM sound insulation applications, etc.

ACOUSTIC PERFORMANCE

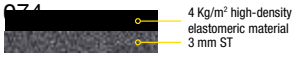


Freq. (Hz)	R (dB)
100	16,2
125	17,3
160	16,7
200	17,6
250	17,4
315	17,6
400	20,7
500	22,9
630	24,2
800	25,8
1000	26,5
1250	27,8
1600	29,3
2000	28,9
2500	30,2
3150	33,3
4000	35,0
5000	35,9

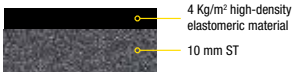
R_w ($C;C_{tr}$)=26 (0;-3)dB

RANGE

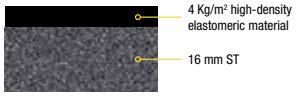
K-FLEX® K-FONIK ST GK 074



K-FLEX® K-FONIK ST GK 072



K-FLEX® K-FONIK ST GK 070



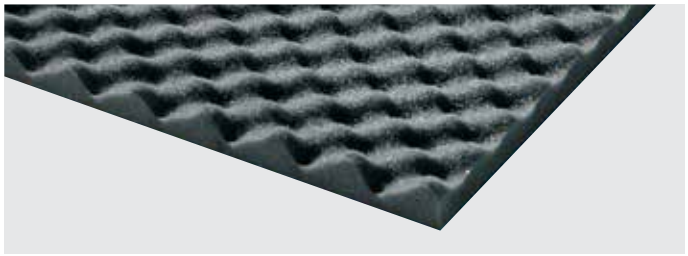
Please see the price list for the full range

K-FLEX® K-FONIK ST GK ▸ TECHNICAL DATA

Property	Value	Test method
Material	Flexible elastomeric foam with high-density elastomeric material	
Weight	4,4 kg/m² (K-FLEX® K-FONIK ST GK 072)	
Fire rating	B-s3, d0	EN 13501-1
Thermal conductivity	0.036 W/(m•K)	EN 12667
Temperature	-40°C +70°C	
Dimensions	2000 x 1000 mm	
Surface	Smooth	
Base colour	Black	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
K-FONIK B



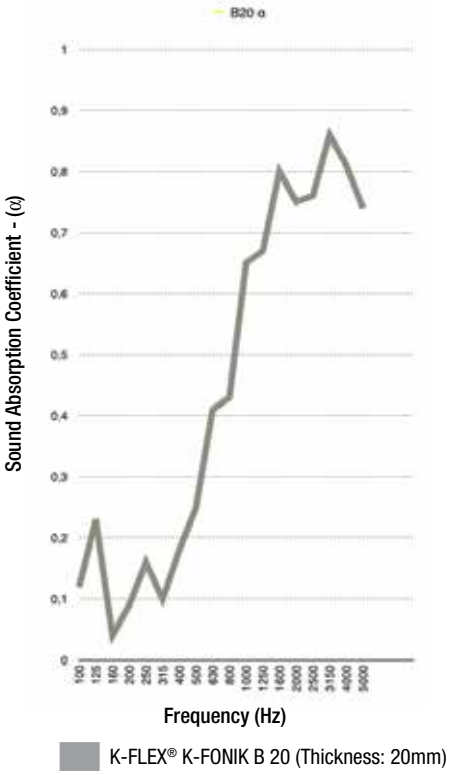


Embossed surface polyurethane foam sheet ideal for acoustic absorption. **K-FLEX® K-FONIK B** material is specifically designed for situations where sound absorption is a priority. It is made of open cell flexible polyurethane foam with a density of 25/30 kg/m^3.

APPLICATION

K-FLEX® K-FONIK B is widely used in gyms, conference rooms, rifle ranges, recording studios, radio/television studios, moveable acoustic panels, engine rooms, etc.

ACOUSTIC PERFORMANCE



K-FLEX® K-FONIK B 20 (Thickness: 20mm)

	B20
Freq. (Hz)	α
100	0,12
125	0,23
160	0,04
200	0,09
250	0,16
315	0,10
400	0,18
500	0,25
630	0,41
800	0,43
1000	0,65
1250	0,67
1600	0,80
2000	0,75
2500	0,76
3150	0,86
4000	0,81
5000	0,74
α_w	0,28

RANGE

K-FLEX® K-FONIK B 20



Please see the price list for the full range

K-FLEX® K-FONIK B ▸ TECHNICAL DATA

Property	Value	Test method
Material	Polyurethane foam	
Density	25 ÷ 30 kg/m^3	
Fire rating	Euroclass E	
Temperature	-40°C +70°C	
Dimensions	1000 x 2000 mm	
Surface	Embossed	
Thickness	20 mm	
Base colour	Black	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
K-FONIK PU GK

K-FLEX® K-FONIK PU GK is a sound absorption material with high density elastomeric sheet specifically designed to provide a solution to particular soundproofing problems.



APPLICATION

K-FLEX® K-FONIK PU GK is ideal for the sound insulation of fixed or false walls, ceilings and false ceilings, garages, acoustic cabins and drainage systems.

RANGE

K-FLEX® K-FONIK PU GK



K-FLEX® K-FONIK PU GK



Please see the price list for the full range

K-FLEX® K-FONIK PU GK ▸ TECHNICAL DATA

Property	Value	Test method
Material	Polyurethane foam and high density mass	
Fire rating	Euroclass E	
Temperature	-40°C +70°C	
Dimensions	1000 x 2000 mm	
Surface	Surface Smooth or embossed	
Base colour	Black	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
K-FONIK P

K-FLEX® K-FONIK P is a sound absorption material manufactured with a pyramid-shaped surface, It is the ideal acoustic insulation solution for rooms etc.





Example of possible application

APPLICATION

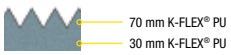
K-FLEX® K-FONIK P is widely used in gyms, conference rooms, rifle ranges, recording studios, radio/television studios, moveable acoustic panels, engine rooms, etc.

RANGE

K-FLEX® K-FONIK P 50



K-FLEX® K-FONIK P 100



Please see the price list for the full range

ACOUSTIC PERFORMANCE

P50 - α_w = 0,34
P100 - α_w = 0,82

K-FLEX® K-FONIK P ▸ TECHNICAL DATA

Property	Value	Test method
Material	Polyurethane foam	
Density	25 ÷ 30 kg/m³	
Fire rating	Euroclass E	
Temperature	-40°C +70°C	
Dimensions	1000 x 1000	
Surface	Pyramid structure	
Thickness	50 - 100 mm	
Base colour	Dark grey	

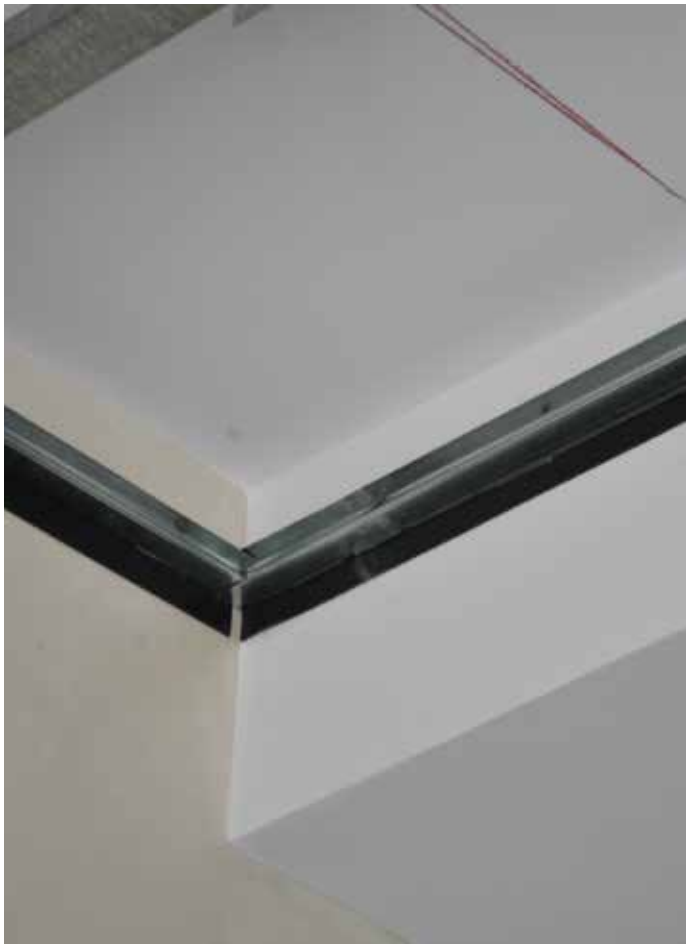
K-FLEX® reserves the right to change data and technical requirements without notice.



PROJECTS

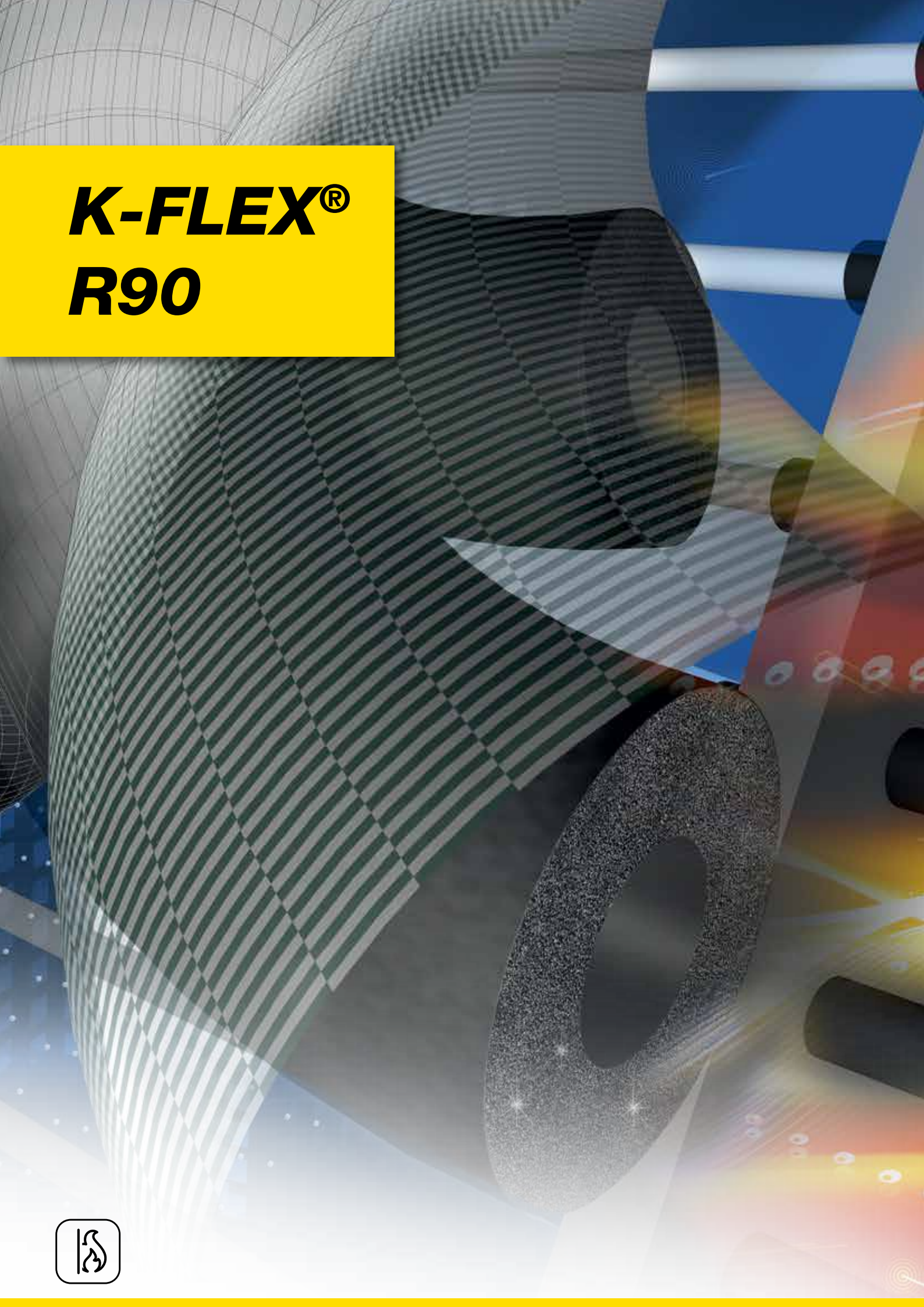
Poland







K-FLEX® R90







K-FLEX® R90

- Did you know that a pencil-sized hole in a wall, such as that caused by burning electric cables, is enough to fill the adjacent room with smoke within 3 minutes and 40 seconds to the point where you can put your hand in front of your face (~ 0.5 m) can no longer see? While permitted under MLAR relief, the fact remains that smoke or toxic fumes are the most commonly identified cause of death in fires, underscoring the need for the installation of effective fire protection products. K-FLEX® offers K-FLEX® R90 an efficient fire protection product that effectively prevents the spread of fire through wall and ceiling penetrations or ventilation ducts.

Site

GENERAL INFORMATION



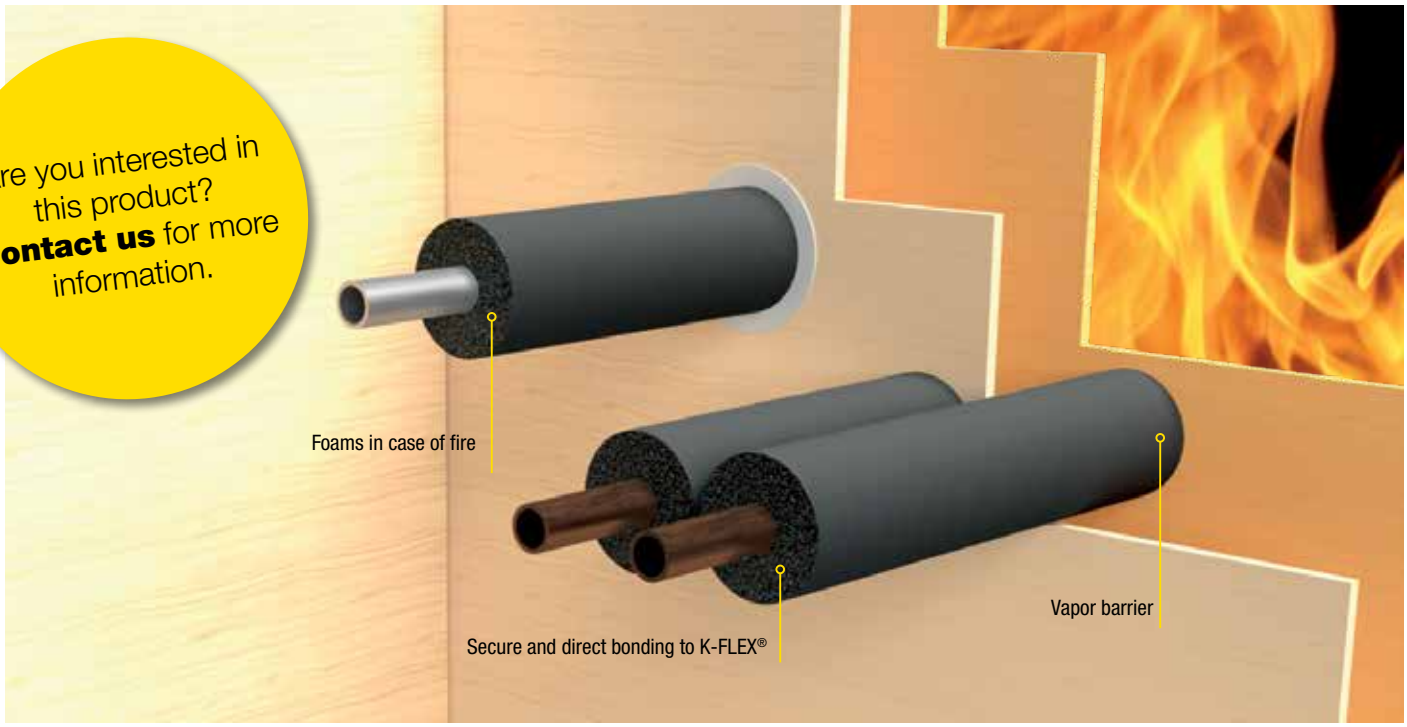
NEW Upgrade up to R120



APPLICATION

K-FLEX® R90 is an active fire protection tube for wall and ceiling penetrations. It covers flammable and non-flammable pipelines. The K-FLEX® R90 tube can be used for cold and heat conducting lines. Furthermore, the K-FLEX® R90 is characterized by its excellent price-performance ratio.

- R90 for heating, sanitary and refrigeration lines
- R90 with “zero” distance also in F-90 lightweight walls
- R90 in walls from wall thicknesses d ≥ 100mm
- Flexible, closed-cell insulation
- R90 also for flammable pipes
- Sealing up to Ø 89 possible
- Easy processing
- Fire protection without complex additional measures
- Easy connection to further insulation



K-FLEX® R90 is available as tubing. The closed elastomeric cell structure is combined with graphite, which has a swelling property in the event of fire. The different thicknesses (from 19 to 25 mm) contribute to thermal insulation.

TECHNICAL INFORMATION

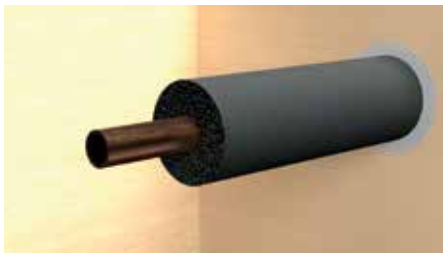
K-FLEX® R90 ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +116°C	
Thermal conductivity λ W/(m•K)	0 ° C = 0.050 40 ° C = 0.056	
Water vapor diffusion resistance μ	≥ 10.000	
Fire behavior - building material class	DE: B2 EU: Euroclass D_L-s2, d0	DIN 4102 EN 13501-1
Component fire resistance	EU: EI60 - EI120 (ETA) CH: Fire resistance class EI 90	EN 13501-2

K-FLEX® reserves the right to change data and technical requirements without notice.



Steel, stainless steel and SML pipes up to ø 89 mm



Copper pipes up to ø 89 mm



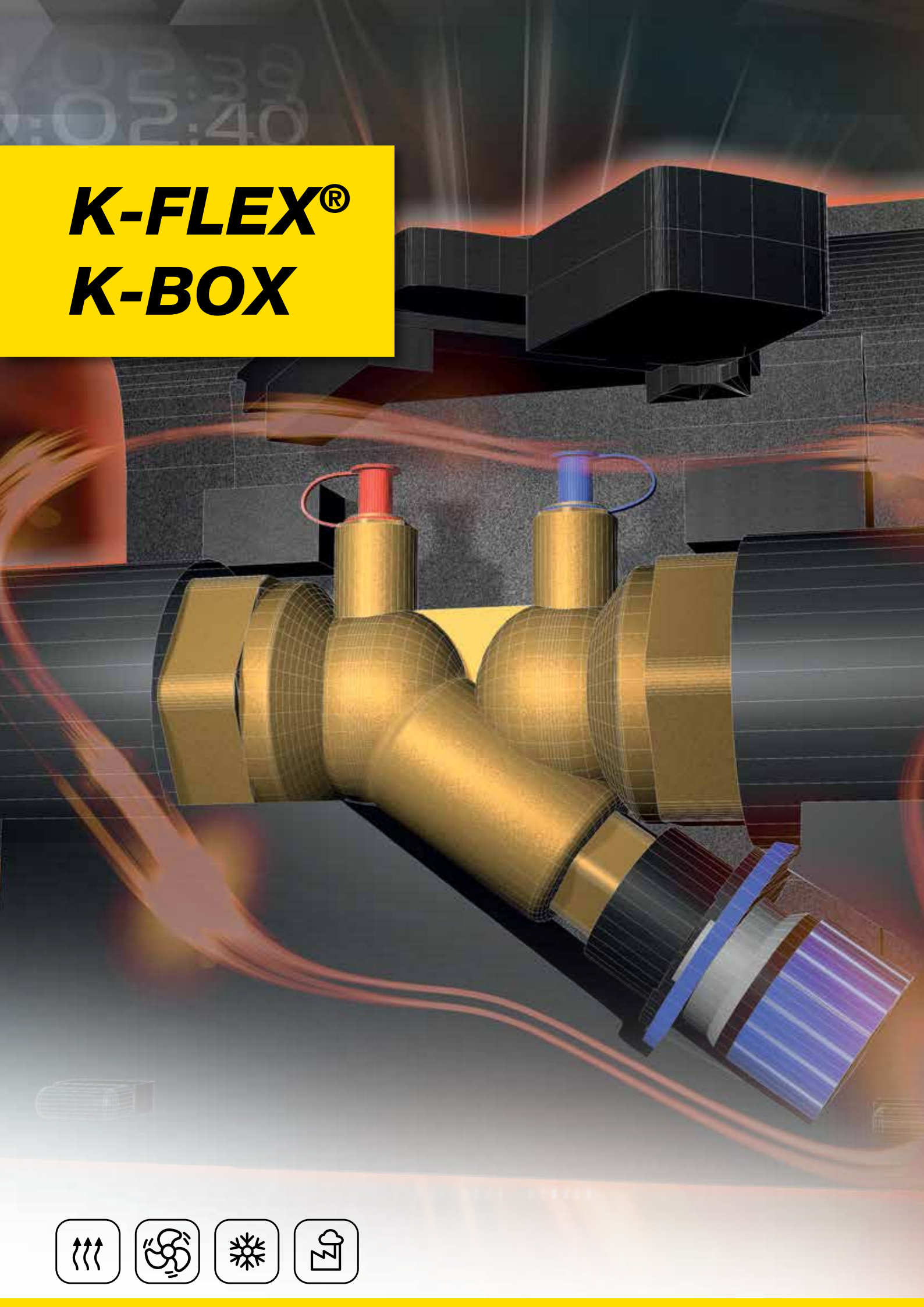
Flammable pipes up to ø 76 mm (Plastic and multilayer composite pipes)

PACKAGING AND TRANSPORT OVERVIEW

CARTONS	PRODUCT	CARTON DIMENSIONS IN CM			CARTONS/ PALLET	PALLET DIMENSIONS IN CM			PALLETS / TRUCKS	PALLET
		LENGTH	WIDTH	HEIGHT	MAX. NUMBER	LENGTH	WIDTH	HEIGHT	MAX. NUMBER	
	K-FLEX® R90	106	40	25	-	212	118	15	-	

Note: Transport quantities may vary depending on the size of the truck. Please contact our Customer Service for information about the transport quantities that apply to your order.

K-FLEX®
K-BOX







K-FLEX® K-BOX

- Preformed insulation boxes suitable for insulation of valves,filters, flanges and other elements in a piping system

Site

Video

TECHNICAL DATA



K-FLEX® K-BOX ▸ TECHNICAL DATA

Property	Value
Insulation material	K-FLEX® ST
Temperature range	K-BOX removable: from 0°C to +85°C K-BOX glued: from -45°C to +85°C
Storage	from +10°C to +30°C
Thermal conductivity λ W/(m•K)	0,036 W/mK a 0°C
Permeability μ	7000
Corrosion properties	pH neutral (7)
Resistance to mould, fungi and bacteria	Excellent
Odour	Neutral
Colour	Black
Use	Internal

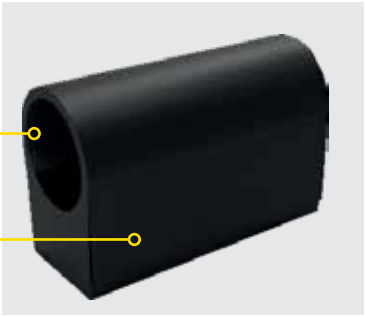
K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION

K-FLEX® K-BOX are available in removable or non removable versions.

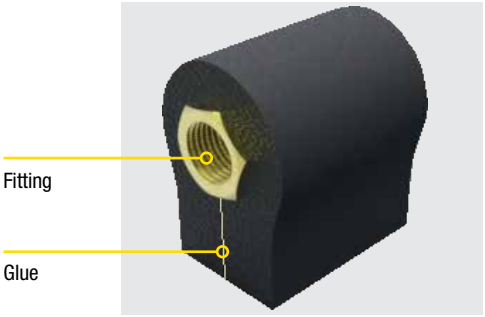
Removable version, with IC CLAD jacketing

Internal insulation
with staggered joints



Service temperature range: from 0°C to +85°C

Non Jacketing, glued version



Service temperature range: from -45°C to +85°C



Each piece has been specifically designed in order to perfectly match the equipment to be insulated.
The elastomeric closed cell structure offers a very low thermal conductivity combined with excellent resistance to water vapor diffusion.

- Time savings during equipment maintenance.
- Easy and quick to use.
- Quality finish.
- Made in the EU.

K-FLEX® K-BOX are available in removable or non removable versions.
For different sizes and models, please contact us.

K-FLEX® K-BOX ▸ RANGE

	Fittings	Thicknesses	Diameters
K-FLEX® K-BOX - Removable	Threaded Flanged	from 19 to 40 mm from 32 to 50 mm	from 22 to 76 mm from 48 to 168 mm
K-FLEX® K-BOX - Glued	Threaded Flanged	from 19 to 40 mm from 32 to 50 mm	from 22 to 76 mm from 48 to 168 mm

ACCESSORIES



K-FLEX® ALU Tape



K-FLEX® ALU Black Tape



K-FLEX® Anticondensation Tape



Adhesives

K-FLEX®
K-JACKET





K-FLEX® K-JACKET

- Removable and reausable tailor made system for thermal insulation of special parts and complex geometry for industrial applications

Site



Thermal insulation K-FLEX® K-JACKET is a removable multifunctional product made of heat-insulating materials, technical cover fabrics and ergonomic fastening accessories for convenient and quick access to equipment requiring regular inspection and maintenance. Main fields of application: objects of energy, chemical, food, oil refining industry, and also transportation of oil and gas, shipbuilding and other fields.

USES OF INSULATION

- Flange connection
- Valves with electric heating
- Regulators
- Ball plug valve
- Pressure sensor
- Ball plug valves with electric heating
- Shutters
- Heat exchangers
- Valves
- Level gauges
- Filters
- Other equipment

- Decreases heat loss of heating cable
- Protects valves and equipment from thermal shocks and negative external influences
- Grades vibration fluctuations and decrease the industrial noise
- Supports the temperature of the equipment
- Protects from condensation and freeze
- Provides safety for maintenance personnel

Makes individually for needs of each client to technical features of the isolated equipment. Delivery of removable covers K-FLEX® JACKET includes: development and agreement of the sketch layout of the product; development of technical and commercial proposal; actual measurements of equipment; development of patterns and blueprints; making; quality control of the output product and delivery.

OPTIONS OF PRODUCT

- Insulation for indoor use
- Insulation for outdoor use
- Insulation with heating cable
- Insulation for use in temperatires up to 900 °C
- Versions: G1(Russia) lowly flammable and NG (Russia) nonflammable



Valve case DU 200

TECHNICAL FABRICS FOR MAKING OF THE COVER LAYER

- K-FLEX® SIL CLAD — fiberglass with silicone impregnation
- Silica fabric with silicone impregnation
- Fiberglass with PVC impregnation



FABRICS

Indications	K-FLEX® SIL CLAD	Silica fabric	Fiberglass
Maximum working temperature	up to +250 °C	up to +1000 °C	up to +80 °C
Using in sub zero temperatures	up to -60 °C	-	-
Outdoor using	+	-	-
Fabric flammability group	G1 (Russia)	NG (Russia)	G1 (Russia)
Wetness resistance	+	-	-
Oil and oil producs resistance	+	-	-

K-FLEX® reserves the right to change data and technical requirements without notice.

FILLERS FOR THE MAIN THERMAL INSULATION LAYER

- Foam rubber K-FLEX® ST
- Foam rubber K-FLEX® ENERGO PLUS
- Basalt wool
- Silica fiber insulation



FILLERS

Indications	K-FLEX® ST	K-FLEX® ENERGO PLUS	Basalt fiber	Silica fiber
Maximum working temperature	up to +105 °C	up to +150 °C	up to +680 °C	up to +1100 °C
Using in sub zero temperatures	up to -20 °C	up to -60 °C	up to -60 °C	-
Outdoor using	+	+	+	-
Fire safety	lowly flammable		nonflammable	
Flammability group	G1 (Russia)	G1 (Russia)	NG (Russia)	NG (Russia)
Rate of thermal conductivity up to 20 °C, Вт/ (М·°С), no more	0,038	0,039	0,040	0,041
Wetness resistance	+	+	-	-
Oil and oil producs resistance	+	+	-	-
Average density, kg/m^3	40	70	80	128
Operation period, years	25	48	5	3

K-FLEX® reserves the right to change data and technical requirements without notice.

FASTENING HARDWARE FOR FIXING

- Para-aramid thread with metal core
- Multifilament belts
- Premium class contact tapes
- Spring buckles

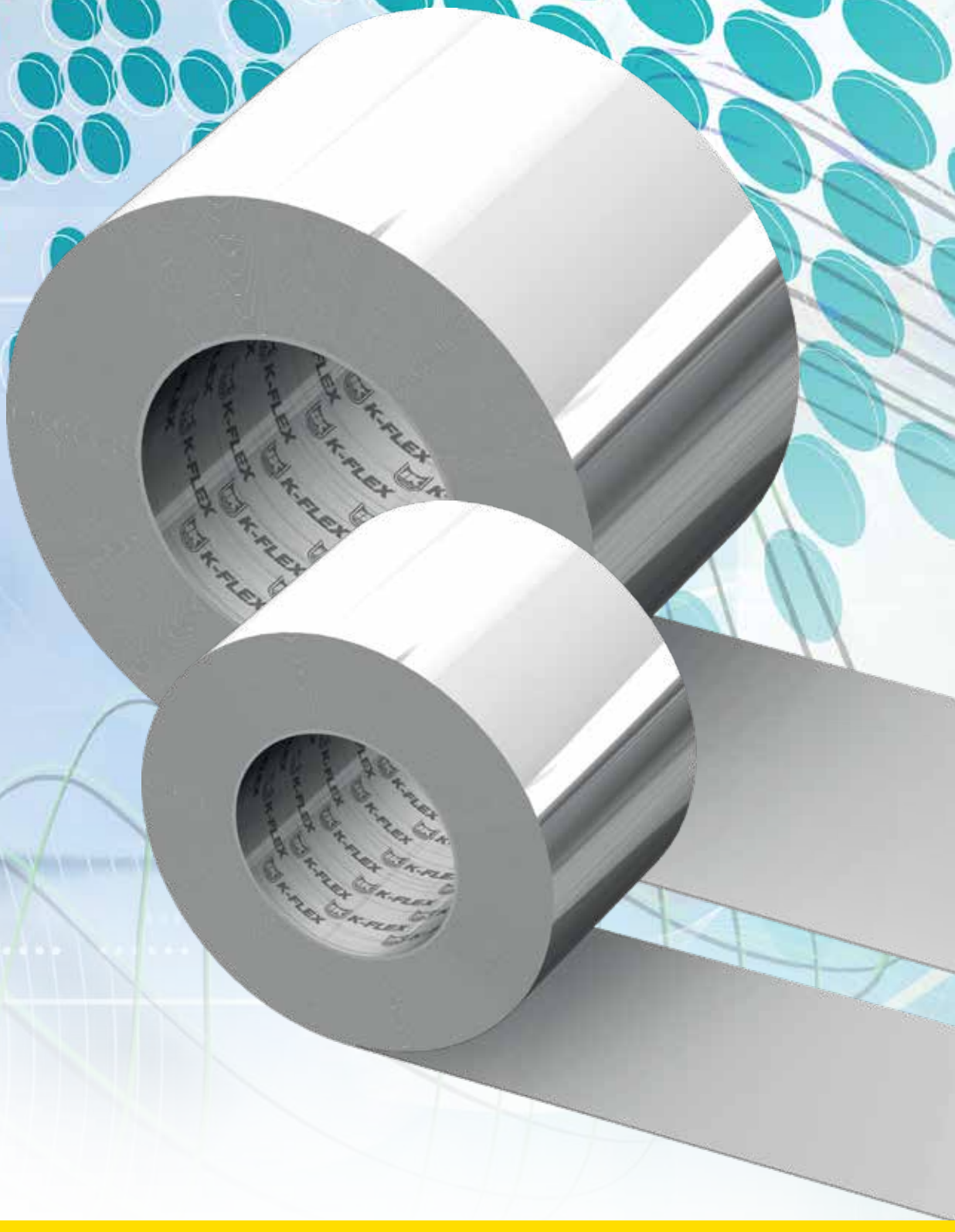


FIXING

Threads	Belts	Tapes	Bucklers
Temperature of use up to 1000 °C	Polypropylene basis	Polyamide basis	Industrial steel locks
Resistant to mechanical stress	Resistant to ultraviolet	Temperature of useup to +140 °C	
Nonflammable	Resistant to attrition	Perfect resistance to solon water, acid solutions to ISO 105-G04:1989	Breaking load no less than 1100 кг
Tensile strength more than 8500 кН	Resistant to temperature fluctuations from -60 °C to +60 °C		

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® TAPES





K-FLEX® TAPES

- The difference is in the details

K-FLEX®
ALU AA CW TAPE

Aluminum Foil Tape



Adhesion to steel: **20 N/25mm**

High tensile strength aluminum foil, combined with cold weather water based solvent acrylic adhesive, protected by an easy-release silicone release paper or silicone coated polyethylene liner. Cold Weather version (low temperatures).

MEASUREMENTS

Thicknesses: 25 - 30 - 40 - 50 Micron
Length: 50 m
Widths: 50 - 75 - 100 mm

FEATURES

- Aluminum foil provides excellent reflection of both heat and light.
- High quality adhesive with strong adhesion offers a permanent seal and bond on Foil-Scrim-Kraft Facing joints and seams in HVAC ductwork applications.
- Good resistance to aging, both indoors and outdoors.
- Low moisture vapor transmission rate offers excellent performance.

APPLICATIONS

HVAC industry for joining and sealing Foil-Scrim-Kraft Facing laminated ductwrap / duct board joints and seams; joining and sealing flexible air duct seams and connections. General purpose holding, patching, sealing and masking applications – indoors and outdoors.

STORAGE & SHELF LIFE

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

SURFACE PREPARATION

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® ALU AA CW TAPE ▸ TECHNICAL DATA

Property	K-FLEX® ALU AA 130 CW	K-FLEX® ALU AA 130 PLUS CW	K-FLEX® ALU AA 140 CW	K-FLEX® ALU AA 150 CW	Test method
ALU backing thickness	25 Micron	30 Micron	40 Micron	50 Micron	PSTC-133 / ASTM D 3652
Total thickness (with PE liner)	87 Micron	92 Micron	102 Micron	112 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	20 N/25mm	20 N/25mm	20 N/25mm	20 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	40 N/25mm	45 N/25mm	55 N/25mm	75 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0 %	3.0 %	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
ALU HA CW TAPE

Aluminum Foil Tape



High tensile strength aluminum foil, combined with cold weather water based solvent acrylic adhesive, protected by an easy-release silicone release paper or silicone coated polyethylene liner. Cold Weather version (low temperatures).

MEASUREMENTS

Thicknesses: 25 - 30 - 40 - 50 Micron
Length: 50 m
Widths: 50 - 75 - 100 mm

FEATURES

- Aluminum foil provides excellent reflection of both heat and light.
- High quality adhesive with strong adhesion offers a permanent seal and bond on Foil-Scrim-Kraft Facing joints and seams in HVAC ductwork applications.
- Good resistance to aging, both indoors and outdoors.
- Low moisture vapor transmission rate offers excellent performance.

APPLICATIONS

HVAC industry for joining and sealing Foil-Scrim-Kraft Facing laminated ductwrap / duct board joints and seams; joining and sealing flexible air duct seams and connections. General purpose holding, patching, sealing and masking applications – indoors and outdoors.

STORAGE & SHELF LIFE

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

SURFACE PREPARATION

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® ALU HA CW TAPE ▸ TECHNICAL DATA

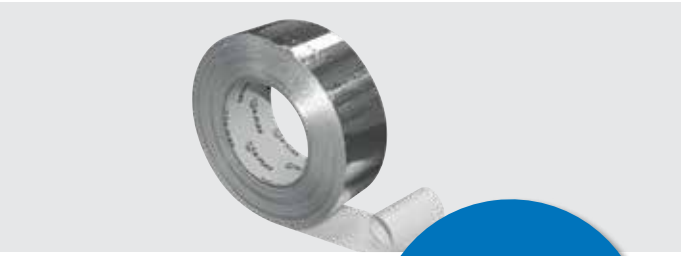
Property	K-FLEX® ALU HA 130 CW	K-FLEX® ALU HA 130 PLUS CW	K-FLEX® ALU HA 140 CW	K-FLEX® ALU HA 150 CW	Test method
ALU backing thickness	25 Micron	30 Micron	40 Micron	50 Micron	PSTC-133 / ASTM D 3652
Total thickness (with PE liner)	87 Micron	92 Micron	102 Micron	112 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	25 N/25mm	25 N/25mm	25 N/25mm	25 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	40 N/25mm	45 N/25mm	55 N/25mm	75 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0 %	3.0 %	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
ALU AR CW TAPE

Foil-Scrim Tape



Adhesion to steel: **15 N/25mm**

Foil-Scrim backing, combined with cold weather water based solvent acrylic adhesive, protected by an easy-release silicone release paper. Cold Weather version (low temperatures).

MEASUREMENTS

Thicknesses: 18 - 25 - 30 - 40 - 50 Micron
Length: 50 m
Widths: 50 - 75 - 100 mm

FEATURES

- Foil-Scrim provides excellent reflection of both heat and light.
- High quality adhesive with strong adhesion and holding power offers reliable and durable Foil-Scrim Facing for joints and seams sealing in HVAC and ductwork applications.
- Low moisture vapor transmission rate makes K-FLEX® ALU AR tapes an excellent vapor barrier.
- Service Temperature range from -35 °C ~ +120 °C.

APPLICATIONS

HVAC industry for joining and sealing Foil-Scrim Facing laminated blankets / duct board / pipe section joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

STORAGE & SHELF LIFE

12 months when stored at 21 °C (70 °F) / 50% relative humidity out of direct sunlight

SURFACE PREPARATION

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® ALU AR CW TAPE ▸ TECHNICAL DATA

Property	K-FLEX® ALU AR 106 CW TAPE	K-FLEX® ALU AR 107 CW TAPE	K-FLEX® ALU AR 107 PLUS CW TAPE	K-FLEX® ALU AR 108 CW TAPE	K-FLEX® ALU AR 108 PLUS CW TAPE	Test method
ALU backing thickness	18 Micron	25 Micron	30 Micron	40 Micron	50 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	15 N/25mm	15 N/25mm	15 N/25mm	15 N/25mm	15 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	100 N/25mm	100 N/25mm	100 N/25mm	120 N/25mm	120 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0%	3.0%	3.0%	3.0%	3.0%	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular urpose and is suitable for the user's method of application before use.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
ALU HAR CW TAPE

Foil-Scrim Tape



Foil-Scrim backing, combined with cold weather water based solvent acrylic adhesive, protected by an easy-release silicone release paper. Cold Weather version (low temperatures).

MEASUREMENTS

Thicknesses: 18 - 25 - 30 - 40 - 50 Micron
Length: 50 m
Widths: 50 - 75 - 100 mm

FEATURES

- Foil-Scrim provides excellent reflection of both heat and light.
- High quality adhesive with strong adhesion and holding power offers reliable and durable Foil-Scrim Facing for joints and seams sealing in HVAC and ductwork applications.
- Low moisture vapor transmission rate makes K-FLEX® ALU HAR tapes an excellent vapor barrier.
- Service Temperature range from -35 °C ~ +120 °C.

APPLICATIONS

HVAC industry for joining and sealing Foil-Scrim Facing laminated blankets / duct board / pipe section joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

STORAGE & SHELF LIFE

12 months when stored at 21 °C (70 °F) / 50% relative humidity out of direct sunlight

SURFACE PREPARATION

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® ALU HAR CW TAPE ▸ TECHNICAL DATA

Property	K-FLEX® ALU HAR 106 CW TAPE	K-FLEX® ALU HAR 107 CW TAPE	K-FLEX® ALU HAR 107 PLUS CW TAPE	K-FLEX® ALU HAR 108 CW TAPE	K-FLEX® ALU HAR 108 PLUS CW TAPE	Test method
ALU backing thickness	18 Micron	25 Micron	30 Micron	40 Micron	50 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	17,5 N/25mm	17,5 N/25mm	17,5 N/25mm	17,5 N/25mm	17,5 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	100 N/25mm	100 N/25mm	100 N/25mm	120 N/25mm	120 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0%	3.0%	3.0%	3.0%	3.0%	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	-35 ~ +120°C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular urpose and is suitable for the user's method of application before use.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
ALU BLACK CW TAPE
Coloured Aluminum Foil Tape



Black or white lacquered 30 micron (1.2 mil) aluminum foil, combined with cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper or silicone coated blue polyethylene liner. Cold Weather version (low temperatures).

MEASUREMENTS

Thickness: 30 Micron
Length: 50 m
Width: 50 mm

FEATURES

- Lacquered aluminum foil.
- Good aging resistance, both indoors and outdoors.
- Low moisture vapor transmission rate offers excellent sealing and patching performance.

APPLICATIONS

HVAC industry for joining and sealing black lacquered Foil-Scrim-Kraft Facing laminated ductwrap / duct board / pipe insulation's joints and seams. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

STORAGE & SHELF LIFE

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

SURFACE PREPARATION

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® ALU BLACK CW TAPE ▸ TECHNICAL DATA

Property	Value	Test method
ALU backing thickness	30 Microns	PSTC-133 / ASTM D 3652
Total thickness	70 Microns	PSTC-133 / ASTM D 3652
Adhesion to steel	15 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	45 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0 %	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +120°C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use. Available also in ALU WHITE version.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX®
DUCT TAPE



High Quality PE Duct Tape, adopts high grade fabric cloth with color polyethylene covering, coats improved synthetic rubberresin adhesive coated. It enjoys fast stick, straight and smooth tear, good tensile strength, excellent moisture resistant. It conforms well to irregular surface. It is a good choice for bundling, heavy carton packing, general maintenance, pipe wrapping, carpet fixing, air-conditioning duct's seam and joint sealing etc.

MEASUREMENTS

Thicknesses: 160 - 180 - 229 - 280 Micron
Length: 50 m
Widths: 50 - 75 - 100 mm

STORAGE & SHELF LIFE

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

PRODUCT USE

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between +10 ~ +40°C (+50 ~ +105 °F).

K-FLEX® DUCT TAPE ▸ TECHNICAL DATA

Property	K-FLEX® DUCT TAPE	K-FLEX® DT-UNIVERSAL	K-FLEX® DT-STRONG	K-FLEX® DT-EXTREME
Mesh	50	50	50	50
Colour	Grey, Blue, Red, Black, White	Grey, Blue, Red, Black, White	Grey, Blue, Red, Black, White	Grey, Blue, Red, Black, White
Thickness	160 Microns	180 Microns	229 Microns	280 Microns
Adhesion	18 N/25mm	20 N/25mm	20 N/25mm	25 N/25mm
Tensile	75 N/25mm	80 N/25mm	90 N/25mm	100 N/25mm
Elongation to break	12 %	12 %	12 %	12 %
Service temperature	-20 ~ +60°C	-20 ~ +60°C	-20 ~ +60°C	-20 ~ +60°C

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® ST ANTICONDENSATION TAPE



Highly flexible closed cell elastomeric foam (FEF) suitable for hot and cold thermal insulation, featuring a combination of low thermal conductivity, high water vapour diffusion resistance and low flame spread.

MEASUREMENTS

Thickness: 3 mm
Lengths:10 - 15 m
Heights: 15 - 25 - 30 - 50 - 75 - 100 mm

APPLICATIONS

Pipes, ducts, tanks, applied for refrigeration, air conditioning, heating and plumbing, pipe fittings and water ducts, industrial applications for energy saving and/or condensation prevention purposes.

K-FLEX® ST ANTICONDENSATION TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +85°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 7000	EN 12086
Fire rating	Euroclass B-s2, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® ST EXTREME ANTICONDENSATION TAPE



K-FLEX® ST EXTREME is a self-adhesive anti-condensation tape made of closed- cell elastomeric foam. The adhesive layer is designed without mesh reinforcement and tnerefore provides extremely high adhesion to K-FLEX® elastomeric insulation, creating a weld-like bond. The tape is supplied with a paper release liner and can be torn by hand to the required length without cutting tools.

APPLICATIONS

For bonding and sealing butt joints, seams, transitions and connection areas on K-FLEX® elastomeric insulation. Suitable for pipes, air ducts, tanks, fittings and shaped components in refrigeration, air-conditioning, heating and plumbing applications. The tape supports the reliable installation of the insulation system and helps prevent condensation.

K-FLEX® ST EXTREME ANTICONDENSATION TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +85°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,031 0°C = 0,033 +20°C = 0,035 +40°C = 0,037	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 7000	EN 12086
Fire rating	Euroclass B-s2, d0	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® SOLAR HT TAPE



Flexible closed cell elastomeric foam (EPDM) suitable for hot thermal insulation, specially designed to suit highed temperature sapplications.

MEASUREMENTS

Thickness: 3 mm
Length:15 m
Height: 50 mm

APPLICATIONS

Ducts and pipes, specially designed for solar systems and high temperatures.

K-FLEX® SOLAR HT TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +85°C	EN 14706
Thermal conductivity λ W/(m•K)	0°C = 0,040 40°C = 0,044	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Fire rating	Euroclass E	EN 13501-1
Ecological data	Without CFCs and HCFCs	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® ECO ANTICONDENSATION TAPE



Highly flexible closed cell elastomeric foam (FEF) suitable for hot and cold thermal insulation, free from halogenated flame retarders and halogenated ingredients, featuring a low toxicity in case of fire.

MEASUREMENTS

Thickness: 3 mm
Length:15 m
Height: 50 mm

APPLICATIONS

Pipes, ducts, tanks, applied for refrigeration, air conditioning, heating and plumbing, pipe fittings and water ducts, industrial applications for energy saving and/or condensation prevention purposes.

K-FLEX® ECO ANTICONDENSATION TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Temperature range	from -40°C to +85°C	EN 14706
Thermal conductivity λ W/(m•K)	-20°C = 0,036 0°C = 0,038 +20°C = 0,040 +40°C = 0,042	EN 12667 EN ISO 8497
Corrosion prevention	pH neutral (7)	EN 13468
Permeability μ	≥ 3000	EN 12086
Fire rating	Euroclass E	EN 13501-1
Ecological data	Halogen free - PVC - CFC - HCFC Free	

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® COLOR ANTICONDENSATION TAPE



Highly flexible closed cell elastomeric foam (FEF) protected by a layer of specially designed acrylic paint available in different colours.

MEASUREMENTS

Thicknesses: 3 - 6 mm
Lengths:7,5 - 15 m
Heights: 50 - 100 mm

APPLICATIONS

Pipes, ducts, tanks, applied for air conditioning, heating and plumbing, fittings and accessories.

K-FLEX® COLOR TAPE ▸ TECHNICAL DATA

UV stability	Value	Test method
Weatherometer	> 2000 Hours	DIN 53231
Desert exposure	> 2 Anni	ASTM G 7-97
Total weight approx.	50 g/m^2	EN 12086
Thickness	45 µ	
Fire rating with K-FLEX® ST	Euroclass C-s3, d0	
Fire rating with K-FLEX® ECO	Euroclass E	
Fire rating with K-FLEX® SOLAR HT	Euroclass E	

K-FLEX® reserves the right to change data and technical requirements without notice.

COLOR RANGE

- RAL 7035 grey - Colour code **G0**
- RAL 9002 white - Colour code **G1**
- RAL 9011 black - Colour code **N0**
- RAL 5012 blue - Colour code **B0**
- RAL 6032 green - Colour code **V0**
- RAL 3000 red - Colour code **R0**

K-FLEX® PVC 070 SELF-ADHESIVE TAPE



A thin premium grade plasticized PVC film coated with an aggressive rubber based adhesive with good characteristics. It is highly conformable and unaffected by most chemicals and moisture. Meet ROHS, REACH requirement. It does not contain substances harmful to human body, such as lead and cadmium.

MEASUREMENTS

Length: 25 m
Heights: 25 - 38 - 50 mm

APPLICATIONS

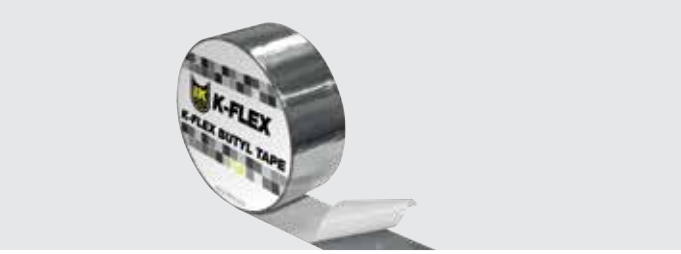
- Electric insulation below 600V
- Insulating wrapping of electric wires and cables
- Marking of electric wires and cables
- Can be used indoor and outdoor

K-FLEX® PVC 070 SELF-ADHESIVE TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Total thickness	0.10 mm	ASTM-D-1000
Tensile strength	20 N/cm	ASTM-D-1000
Elongation to break	200%	ASTM-D-1000
Adhesion Strength: to steel to backing	 1,5 N/cm 1,5 N/cm	 ASTM-D-1000 ASTM-D-1000
Voltage resistance	600 V	UL510
Temperature resistance	80°C	ASTM-D-1000
Flame resistance	<2 s	ASTM-D-1000
Content of Heavy Metal: Lead, Cadmium Mercury, Chromium Polybrominated biphenyl	 <30 ppm <10 ppm <10 ppm	 US EPA3052 US EPA3060A US EPA3540C

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® BUTYL TAPE



K-FLEX® Butyl Tape is a self-adhesive sealing tape consisting of a high-performance butyl rubber adhesive compound, protected by a reinforced aluminium film. K-FLEX® Butyl Tape is highly adhesive, even at low temperatures, to all common building materials. K-FLEX® Butyl Tape is highly resistant to ageing and UVrays. K-FLEX® Butyl Tape is available in various sizes for multipurpose applications.

MEASUREMENTS

Length:10 m
Heights: 50 - 100 mm

FEATURES

- Tear-resistant
- Cold applied
- Excellent adhesion at low temperatures
- Waterproof and self-sealing
- Excellent heat stability
- Resistant to ageing and to UV-rays
- No oil migration
- Solvent-free

APPLICATIONS

Choose the most suitable width and metal finish of the sealing tape. Unroll the tape until the desired length is reached. Start removing the release liner that covers the adhesive part of the tape and position the sealing tape. Carry out a rollpressing to avoid entrapment of air bubbles. When connecting two tapes, use an overlap of at least 5 cm. Press with a roller or a cloth pad.

STORAGE & SHELF LIFE

The quality and the characteristics of the materials remain unaltered for a long period of time. However, it is recommended to use the product within 12 months from production date. The product must be stored in the original and unopened packaging in a dry and well ventilated place at a temperature between + 5 °C and + 40 °C. Storage above 50 °C may lead to difficulties in removing the release liner when applying. The product is not affected by frost.

SURFACE PREPARATION

The sealing tape must be applied to a clean, dry, smooth and dust-free surface. For an application between 0 °C and 5 °C, ensure that frost or condensation are absent on the surface. In case of porous supports it’s advisable to stabilize the surface. No special tools are required to install this sealing tape.

PRODUCT USE

Sealing and joining materials such as glass, steel, Plexiglas, polycarbonate, wood, aluminium, PVC. K-FLEX® Butyl Tape can be used for the sealing of doors and windows frames, conservatories, gutters, piping and ducting. K-FLEX® Butyl Tape can also be applied in construction on canopies, roofs, chimneys and skylights.

K-FLEX® BUTYL TAPE ▸ TECHNICAL DATA

Property	Value	Test method
Film Type / Colour	Aluminium - PET	
Compound Type / Colour	Butyl Rubber Adhesive / Grey	
Standard Thicknesses	0.8 mm	
Tensile strength	Long. 185 N / 50 mm I Tras. 200 N / 50 mm	EN 12311-1
Elongation to break	Long. 10 % I Tras. 20 %	EN 12311-1
Solids	100%	
180° Peel Adhesion	20 N/cm	ASTM D 1000
Probe Tack	8.0 N	ASTM D 2979
Vertical Flow	0 mm	ISO 7390
Application Temperature Range	0°C / + 40°C	
Service Temperature Range	- 30°C / + 90°C	
Test Reports	Fire classification: E Factor of Resistance to the Diffusion of the Water Vapour: μ = 2.720.000 Total Volatile Organic Compound emissions (TVOC): 30 μg/m^3	EN 13501-1 UNI EN 1931 ISO 16000-6

The manufacturer disclaims all liability for product use and applications. Butyl sealants are plastic products. They possess no elastic recovery. Do not use for permanent fixing or in load bearing applications instead of an adhesive or a mechanical fixing. Butyl adhesive are sensitive to solvents. It is advisable to check the chemical compatibility of the butyl adhesive with the substrate adhesives.

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® GUTTAGENA PVC BAND



Twice the thickness compared to the previous range, it is ideal for finishing PVC sheet insulation coverings (eg. K-FLEX® PACK RS 590). The GUTTAGENA band is available in one colour, light grey, and is matt finished.

MEASUREMENTS

Thicknesses: 0,2 mm
Lengths: 50 m
Widths: 5 - 10 cm

K-FLEX® VINYL BAND



Flexible, robust and resistant to external agents, used for covering pipes insulated with elastomeric insulation or other materials. The small roll sizes allow for applications even in tight and narrow spaces. The wide range of colours available allows for a correct colour-coding of pipes, in compliance with the law.

COLOURS

red
green
blue
grey (K-Pack RS 590 type)
light grey
black

MEASUREMENTS

Thicknesses: 0,1 mm
Lengths: 50 - 25 m
Width: 10 cm



K-FLEX® PE INSULATION TRIMMING



Self-adhesive closed cell reticulated PE foam tape, used to cover the seal flange in air-conditioning ducts.

MEASUREMENTS

Thicknesses mm: 3
Length m: 20
Height mm: 15, 20, 25



THE DIFFERENCE IS IN THE DETAILS

K-FLEX®
ACCESSORIES







K-FLEX® ACCESSORIES

- Complete range of solution for the installers

Site

K-FLEX® PVC 200 TYPE W ELBOWS



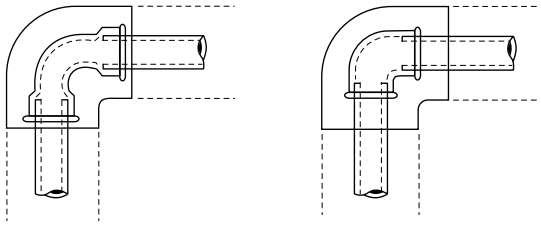
90° single-piece elbows in laminated plastic. Apart from enhancing the overall appearance of the insulated part, they increase protection against impact.

APPLICATION

After having taken the measurements and having chosen the suitable type of elbow, place it onto the part to be covered. The internal borders should overlap to allow for fastening with the appropriate plastic rivets (see the section “components: fixing products”).

MEASUREMENTS

Thicknesses mm: 20, 25, 30, 40, 50, 70, 80, 90
Tube diameters mm: from 17 to 114; inches: from 3/8” to 4”.



K-FLEX® PACK RS 590



A rigid PVC self-rolling sheet with a smooth grey surface. The sheet adheres perfectly to all cylindrical pre-insulated surfaces. Light and easy to use, this non-drip self-extinguishing product protects the insulation as well as enhancing overall external appearance. To maintain the product features intact, in the winter season the rolls should be stocked at room temperature for 24 hours prior to their use.

USE

It is used as a protective covering and to enhance the external appearance of large and small cylindrical pipes insulated with elastomeric material, glass wool mats, rock wool mats, polyurethane and polystyrene pipe coverings.

APPLICATION

- Measure and cut a section of the PVC sheet based on the circumference of the insulation, leaving an excess of a few centimeters for overlapping the joining edges.
- Wrap the sheet around the insulation
- Seal the borders with plastic rivets (see reference in the section “components: fixing products”).

K-FLEX® PACK RS 590 ▸ TECHNICAL DATA

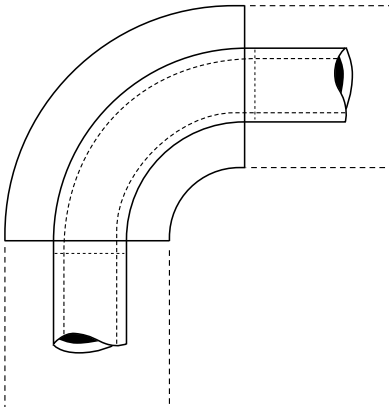
Property	Value
Base	Rigid PVC
Colour	Standard light grey
Packaging	Rolls
Sheet thickness	0,30 mm ÷ 0,35 mm
Temperature range	from -25°C to +70°C
Thermal conductivity λ	0,16 W/(m•K)
Permeability to vapour μ	1,0 gm^2 24h Pa

K-FLEX® reserves the right to change data and technical requirements without notice.

K-FLEX® PVC TYPE SE 90° ELBOWS



90° single-piece elbows in laminated plastic.
Apart from enhancing the overall appearance of the insulated part, they increase protection against impact.



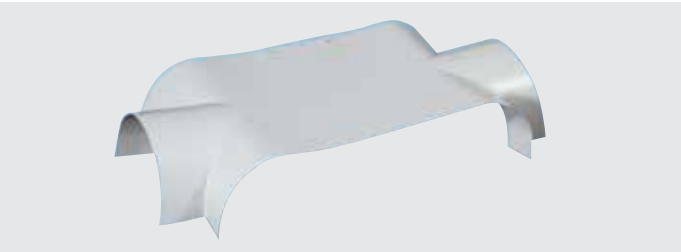
APPLICATION

After having taken the measurements and having chosen the suitable type of elbow, place it onto the part to be covered. The internal borders should overlap to allow for fastening with the appropriate plastic rivets (see the section “components: fixing products”).

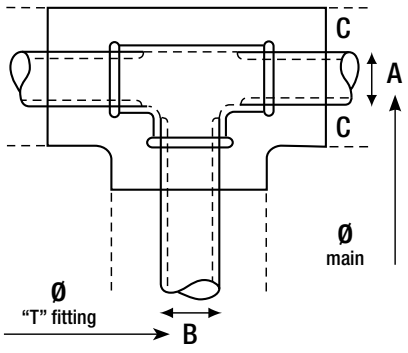
MEASUREMENTS

Thicknesses mm: 20, 25, 30, 40, 50, 70, 80, 90
Tube diameters mm: from 17 to 114; inches: from 3/8” to 4”

K-FLEX® PVC TYPE T



Laminated plastic PVC singlepiece T sections.
Ideal for protecting insulated pipes of medium and large diameters.



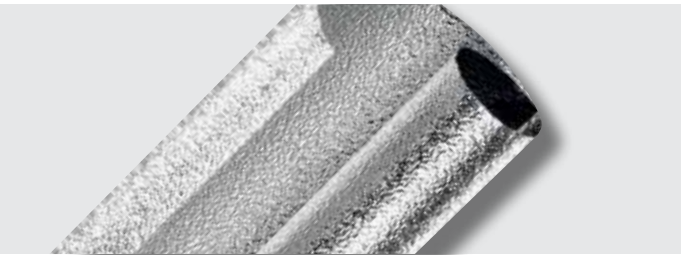
APPLICATION

The external diameter of the PVC T section also includes the thickness of the insulation.
E.g.: to cover a pipe with a 76 mm Ø
(A-B), and a 32 mm thick insulation (C), a 140 x 140 type should be ordered.

MEASUREMENTS

External diameter (main./branch.) mm: from 52/52 to 245/245 from 67/61 to 108/61 from 108/67 to 245/218

K-FLEX® ALU EMBOSSED R 200



Self-wrapping embossed protection sheet in rolls of 99.5% pure aluminium.
Sheet thickness 0.1 and 0.2 mm
Supplied in 1 m wide rolls

PROPERTIES

The product grips perfectly to all cylidrical pre-insulated surfaces, it is light, easy to handle, protects the insulation and enhances the overall appearance. It is incombustible.

POSSIBILITIES OF USE

Used as a protective covering, it also improves the overall appearance of small and large cylindrical pipes insulated with elastomeric, fibre-glass mattresses, mineral wool, polyeurothane and polystyrene.

APPLICATION

If not already pre-cut, cut the sheet to the required circumference. Wrap the sheet around the insulation, seal the longitudinal edges with adhesive foil tape and plastic rivets.

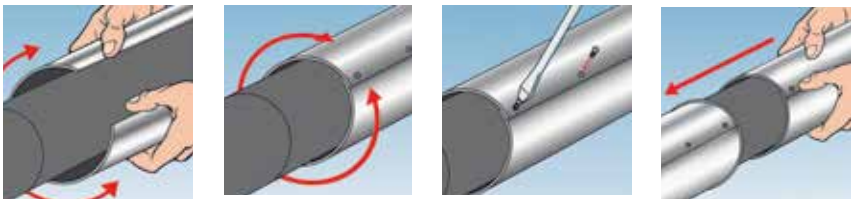
K-FLEX® BLECH MT-CU



99.5% PURE ALUMINIUM SHELL and 90° ELBOWS with a thickness ranging from 0,6 and 0,8.
MT 500: male and female ball swaged edges calendered tube, with reinforced length-wise drilled sealing system.
Length: 1000mm
CU 501: 90° preformed segmented elbows with female-female ball swaged edges.

APPLICATION ON TUBES

- The MT 500 tube diameter is slightly greater than that of the corresponding CU 501 elbow, which makes the connection between the two parts much easier.
- The edges of the joints are fixed together by using the short screws in the holes provided.

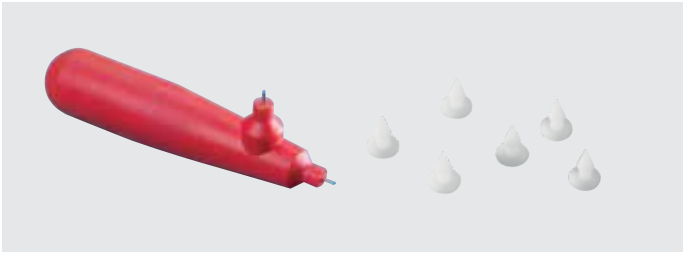


APPLICATION OF CU501 ELBOWS

- Open the segments of the elbow and place them around the insulated pipe.
- After the sections have been correctly positioned, seal the elbow with short screws using the holes provided.
- Connect the MT 500 tube by attaching male edge to female edge.



K-FLEX® FASTENING PRODUCTS PLASTIC RIVETS, PUNCH AND K-FIX



Important for correctly fastening PVC and AL CLAD sheets.
PLASTIC RIVETS: box of 100 WHITE and GREY rivets.
PUNCH: straight/angular

K-FIX. Galvanized steel installation hangar spike with a 50x50 mm base. With adhesive and nonadhesive surface, with a 2,7 mm diameter stick pike, and a self-blocking 30 mm diameter disc.

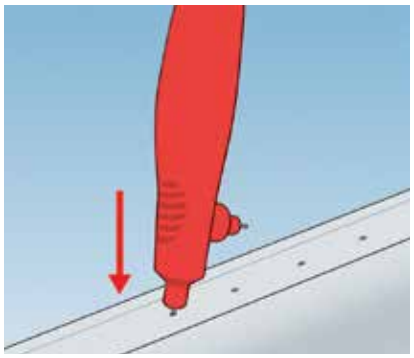
It can be applied to flat metal surfaces for fastening insulation material in sheet or roll form (mineral wool, polyethylene, etc.).
Strongly recommended for air-conditioning ducts.

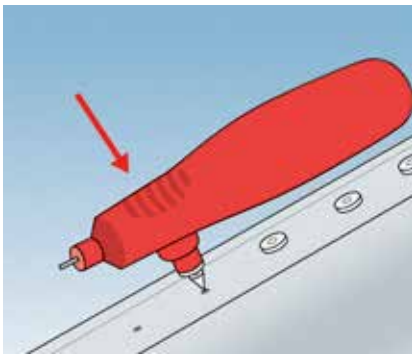
TEMPERATURE RANGE

min/max +10 °C/ +80 °C.
Supplied in boxes of 100 pieces.
Length of pins - from 19 to 114 mm.

APPLICATIONS

- Punch holes along the overlap of the sheet, going through both layers.
- Insert the plastic rivets in the holes, pressing them firmly into the insulation layer.





INSTRUCTIONS FOR THE USE OF K-FIX SELF-ADHESIVE SUPPORTS NO. OF PIECES REQUIRED PER M² AND NO. OF SUPPORTS REQUIRED														
TYPE A: HORIZONTAL USE TYPE B: VERTICAL USE	INSULATION THICKNESS													
	20 MM		25/30 MM		35/40 MM		50 MM		60 MM		80 MM		100 MM	
	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B
20 kg/m³	8	4	8	4	8	4	8	4	8	4	8	4	10	6
30 kg/m³	8	4	8	4	8	4	8	4	10	6	10	6	10	6
40 kg/m³	8	4	8	4	8	4	10	6	10	6	10	6	12	8
50 kg/m³	8	4	8	4	10	6	10	6	10	6	12	8	14	10
80 kg/m³	8	4	10	6	10	6	12	8	12	8	14	10	16	12
100 kg/m³	10	6	10	6	12	8	14	10	14	10	16	12	20	16

K-FLEX® ADHESIVE DISPENSER



A useful accessory that controls flow and helps spread adhesives evenly on insulation surfaces, avoiding having to continuously dip the brush into the tin of adhesive. The adhesive correctly diluted, is manually pumped through the brush.

SPECIAL THINNER FOR K-FLEX® ADHESIVES



Before covering the surfaces to be insulated, it is advisable to clean them with the special K-FLEX® thinners which, thanks to its composition, is also suitable for use with K 414, K 420 or K 425 adhesives. Cleaning of all surfaces with the special K-FLEX® thinners also improves the performance of the adhesives.The special K-FLEX® thinners can be also used for cleaning brushes and spatulas used to spread the glue.
Available in 1 litre tins.

K-FLEX® MW KNIFE



Knife for fibrous materials, double blade roughness for different types and densities of mineral wool: hacksaw blade for high density panels and tubes and classic knife blade for tubes, rolls and light panels. Ergonomic handle for universal grip, blade length 280 mm.

K-FLEX® K-FINISH PAINT



K-FLEX® K-FINISH is a water-based, polymerised acrylic paint specifically developed for use on systems insulated with K-FLEX® materials. Suitable for both indoor and outdoor applications, it provides reliable, long-term protection.
Its quick-drying, high-performance composition makes it ideal for indoor environments, where its non-polluting, odourless properties are particularly valued. All K-FLEX® K-FINISH colours are light-resistant, and even white topcoats maintain a clean, bright finish - both in well-lit and low-light environments. For outdoor installations, K-FLEX® K-FINISH is highly recommended to protect insulated surfaces from UV radiation and harsh weather conditions. For optimal performance and extended service life, applying a double coat is advised.
Available in 2.5-litre tins, with custom colours available on request.

K-FLEX® ADHESIVE



K-FLEX® glues have been specifically designed for use with K-FLEX® elastomeric foam insulation material. The securely bonded surfaces and joints are resistant to ageing and atmospheric agents, and preserve the technical characteristics of the insulating material.

- **K-FLEX® ADHESIVE K-414** for standard applications
- **K-FLEX® ADHESIVE K-414+** for standard applications (faster tack time)
- **K-FLEX® ADHESIVE K-420** for standard applications (Viscosity optimized for hot climates)
- **K-FLEX® ADHESIVE K-467** for standard applications
- **K-FLEX® SPEZIALKLEBER** for heating and solar applications (H + HT)
- **K-FLEX® ADHESIVE K-425** for high temperatures, incl. 2-component
- **K-FLEX® ADHESIVE K-ZERO** VOC-free adhesive **WATER BASE - LEED QUALIFIED - VOC FREE**

K-FLEX® K-414 & K-420 Reaction to fire: **Class 0 BS476**

ESTIMATED CONSUMPTION OF ADHESIVE

	1-sided application (m²)	2-sided application (m²)
Coverage from one can - 0.25 litre	1,7	0,85
Coverage from one can - 0.5 litre	3,4	1,7
Coverage from one can - 0.8 litre	5,44	2,72
Coverage from one can - 2.6 litre	17,68	8,84
Coverage from 1 litre	7	3,5

This is for bonding pipe insulation sections (circumferencial bonding is not included - only longitudinal).
For circumferential bonding, reduce this amount by approximately 10%.

Insulation thickness (mm)	Length of pipe insulation that can be glued with 1 litre of adhesive (Applying to 2 edges of the tube) Linear Metre (lm)
6	567
9	378
13	262
19	179
25	136
32	106
40	85
50	68

K-FLEX® does not accept responsibility for variation of values to those indicated.

K-FLEX® K-ZERO



NEW!

WATER BASE
LEED QUALIFIED
VOC FREE

K-FLEX® K-ZERO is a high-performance, water-based adhesive specifically developed to provide strong and reliable bonding while maintaining a safe profile. K-FLEX® K-ZERO is formulated without volatile organic compounds (VOC-free), it ensures excellent indoor air quality and meets stringent environmental standards.
K-FLEX® K-ZERO is designed for versatility, it offers superior adhesion on a wide range of K-FLEX® products, and provides a durable, long-lasting bond. K-FLEX® K-ZERO Its water-based composition makes it easy to apply, clean, and handle, while developed with attention to regulatory and environmental responsibility.
Thanks to its low odor and non-toxic formulation, K-FLEX® K-ZERO is particularly suitable for use in enclosed or sensitive environments such as residential spaces, schools, offices, and healthcare facilities.
K-FLEX® K-ZERO is qualified for LEED projects in Europe by showing compliance with the specifications for VOC emissions and VOC content.

K-FLEX® COLOR PAINT



Special paint for retouching the surfaces of COLOR coverings, scratched or damaged during installation. The paint, ready for use, should be applied with a soft brush.
Available in 0.5 litre tins.

COLOR RANGE

- RAL 7035 grey
- RAL 9002 white
- RAL 9011 black
- RAL 5012 blue
- RAL 6032 green
- RAL 3000 red

K-FLEX® ALUMINIUM ENDCAPPING IN ROLLS



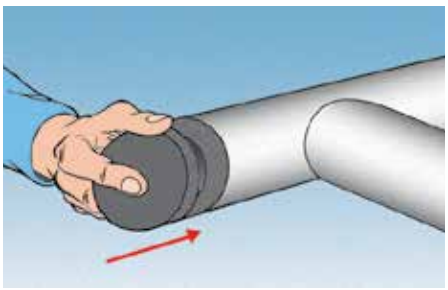
Special endcapping in ribbed aluminium for sealing the ends of insulated pipes. Available in the following colours: SILVER, LIGHT GREY, BLACK, BLUE and RED. Length of rolls - 10 m.
The different colours make it easier to identify the various pipes of a system.

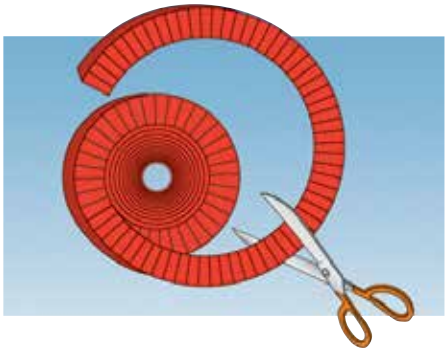
MEASUREMENT

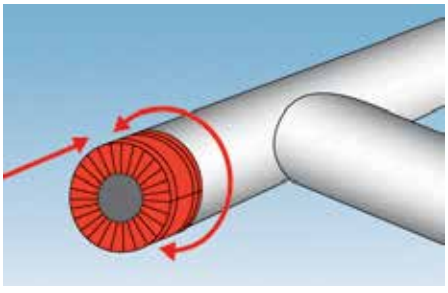
18x32, 23x32, 28x32, 38x42, 48x42,58x42 mm

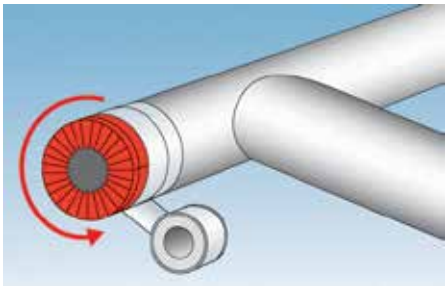
APPLICATION

- Place a cap of insulating material over the end of the pipe
- Cut a strip of the endcapping long enough to wrap around the circumference of the pipe covering
- Wrap the endcapping around the end of the insulated pipe and around the edges of the pipe covering
- Fix the endcapping to the pipe covering with the correct selfadhesive tape









NEW FOR THE INSTALLER: K-FLEX® TOOLBOX!

K-FLEX® is pleased to introduce to its accessory range tool sets specifically tailored to each type of installation.

After extensive research, the K-FLEX® team has selected the best tools to support measurement, cutting and gluing ...everything necessary for the application of our insulating products!

▸ MEASURING TOOLS:
In addition to the classic metal rolling meter and the wooden meter we have also selected a sturdy metal rule to facilitate linear cuts, a caliper and a compass suitable also for large diameter pipes and a cut-resistant template for the measurement and creation of elbows and T's.

▸ CUTTING TOOLS:
In addition to the classic cutter with spare blades, we offer a set of knives of varying lengths complete with sharpening stone, a large mitrebox with grooves at 45°, 22.5° and 90° to facilitate the sectioning of the tube and a set of copper cores of various diameters to make the necessary holes to isolate valves, etc. All cutting tools are supplied with the correct blade guard or packaging specifically designed for transport, protection of the installer and of the product itself.

▸ GLUING TOOLS:
We offer a K-FLEX® glue package specifically designed for our products to be used in conjunction with a set of flat brushes of different sizes or with the appropriate K-FLEX® applicator, as recommended in our installation manuals. There is also a special solvent-resistant container for cleaning brushes. In the toolbox you will find everything necessary for tracing onto our insulation products, a K-FLEX® installation manual and innovative multi-purpose wipes for cleaning hands and tools, without using water. All our solutions, designed for the installer, are divided into practical sets for each installation: BASIC, MEDIUM and PREMIUM SET.

K-FLEX® TOOL BOX BASIC SET



K-FLEX® ACCESSORIES ▸ TOOL BOX - BASIC SET

Description	Dimension	Code
KNIVES 3 K-FLEX® knives with stainless steel blades chrome molybdenum vanadium: 1 knife with 10 cm blade, 1 knife with 20 cm blade and 1 knife with 36 cm blade. Semi rigid and anti-slip plastic handle, with blade guard. **CUTTER + SPARE BLADES** 18 mm K-FLEX® Cutter + 1 box containing 10 spare blades. **SHARPENING STONE** Oval shaped tapered sharpening stone. **CUTTING TEMPLATE** K-FLEX® A4 PVC cutting template 1 mm thick., 21x29,7cm.	53x27x7cm	850VRMK0001

K-FLEX® TOOL BOX MEDIUM SET



K-FLEX® ACCESSORIES ▸ TOOL BOX - MEDIUM SET

Description	Dimension	Code
KNIVES 3 K-FLEX® knives with stainless steel blades chrome molybdenum vanadium: 1 knife with 10 cm blade, 1 knife with 20 cm blade and 1 knife with 36 cm blade. Semi rigid and anti-slip plastic handle, with blade guard. **CUTTER + SPARE BLADES** 18 mm K-FLEX® Cutter + 1 box containing 10 spare blades. **SHARPENING STONE** Oval shaped tapered sharpening stone. **CUTTING TEMPLATE** K-FLEX® A4 PVC cutting template 1 mm thick., 21x29,7cm. **MITRE BOX** K-FLEX® ABS Mitrebox, 230mm long x 95mm wide. **BRUSHES** 2 K-FLEX® brushes with yellow plastic handle, 3 cm and 7 cm wide **METAL RULER and TAPE MEASURE** K-FLEX® ABS 3m tape measure with imperial and metric measurements. K-FLEX® 30cm aluminium ruler. **CALIPER and COMPASS** K-FLEX® 300mm outside metal caliper for measuring the external size. K-FLEX® carpenter's compass with a metal arc and binding screw for setting at the desired degree of opening **YELLOW MARKER** Marker K-FLEX®: waterproof yellow marker pen, quick-drying, low-odour, lightfast and durable. **NAIL PUNCH** K-FLEX® nail punch, straight/angular for the accurate fastening of PVC and K-FLEX® AL CLAD foil.	62x30x25cm	850VRMK0002

K-FLEX® TOOL BOX MEASUREMENT SET



K-FLEX® ACCESSORIES ▸ TOOL BOX - MEASUREMENT SET

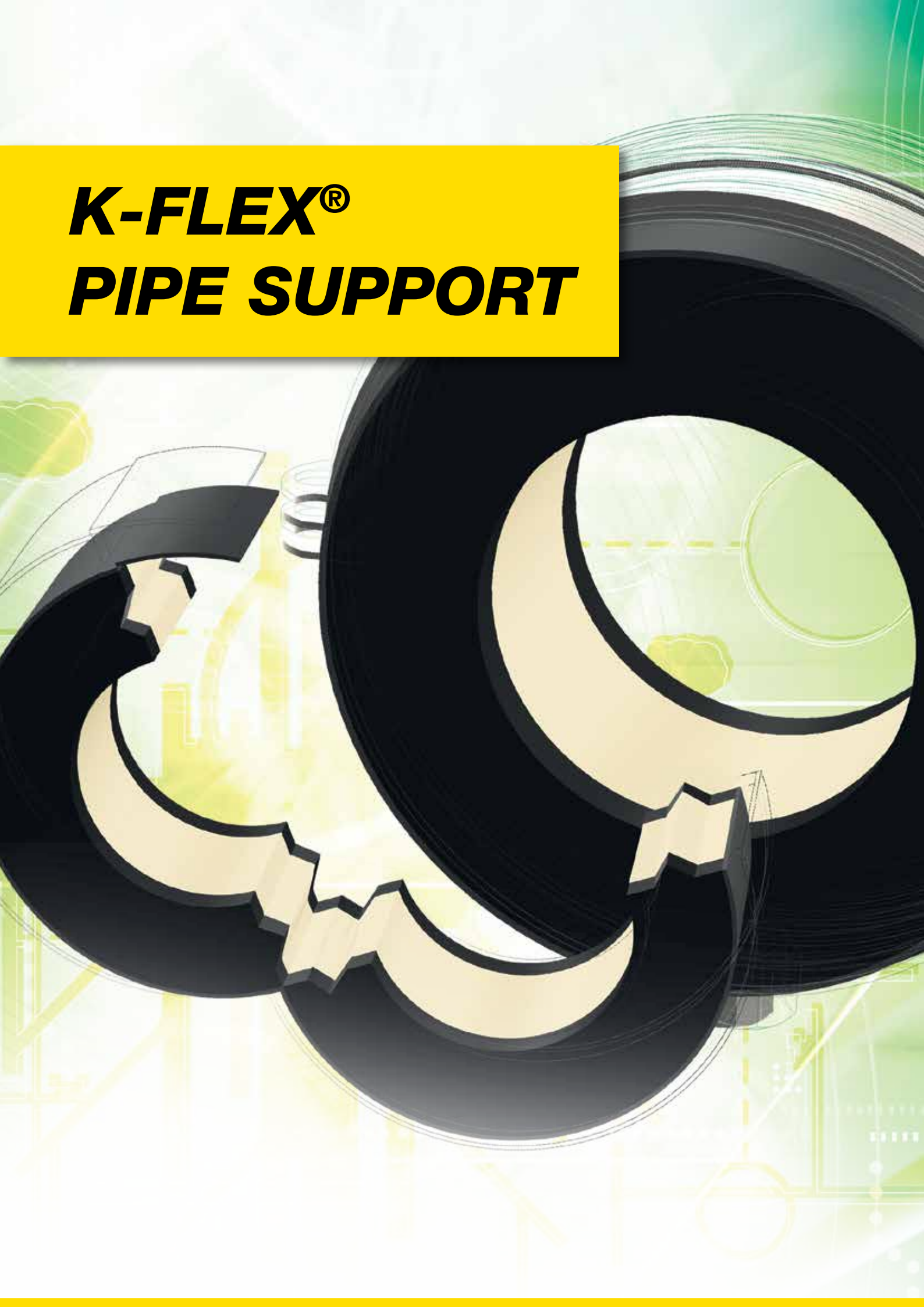
Description	Dimension	Code
CUTTER + SPARE BLADES 18 mm K-FLEX® Cutter + 1 box containing 10 spare blades. **CUTTING TEMPLATE** K-FLEX® A4 PVC cutting template 1 mm thick., 21x29,7cm. **METAL RULER and TAPE MEASURE** K-FLEX® ABS 3m tape measure with imperial and metric measurements. K-FLEX® 30cm aluminium ruler. **CALIPER and COMPASS** K-FLEX® 300mm outside metal caliper for measuring the external size. K-FLEX® carpenter's compass with a metal arc and binding screw for setting at the desired degree of opening	24x4x35 cm	850VRMK0005

For stock availability, consult the relevant sales office.



ENGINEERED FOR EVERY STEP, OUR ACCESSORIES MAKE INSTALLATION EASIER AND YOUR SOLUTION STRONGER, FROM THE FIRST CONNECTION TO THE FINAL TOUCH.

K-FLEX®
PIPE SUPPORT





K-FLEX® PIPE SUPPORT

- Research has shown that uninsulated pipe fittings are still a common thermal bridge on insulated pipe systems. Their effect is often underestimated. A finite element method analysis (FEM) on an insulated pipe section has shown that approximately 50% of the heat loss for the entire considered section is due to the lack of use of pipe supports. It is so easy to avoid thermal bridges. The solution is called K-FLEX® pipe support.

K-FLEX® PIPE SUPPORTS



Specifically designed to ensure a correct insulation thickness where joints are made. The PIR central section, which covers the whole circumference and is attached to two K-FLEX® insulating material sections, ensures a perfect continuity of the vapour barrier avoiding any possible thermal bridge. Longitudinal sealing is obtained by means of the self-adhesive overlap. The external cover is in PVC. The support is also available with a collar and a special metal support which, when fixed to the supporting framework, ensures greater overall installation stability.

MEASUREMENTS

Thicknesses mm: 13, 19, 25, 32
Tube diameter mm: from 18 to 160; inches: from 3/4” to 5”
The insulating supports are also available in K-FLEX® ECO, SOLAR, AL CLAD, COLOR, in the same measurements as those indicated for K-FLEX® ST.

K-FLEX® ST PIPE SUPPORTS ▸ TECHNICAL DATA

Property	Value	Test method
Central section in PIR	Density 80 kg/m^3 (Ø ≤ 125mm) Density 120 kg/m^3 (Ø > 125mm)	
Compression resistance	1000 kPa	
Temperature range	-45°C +105°C	
Thermal conductivity λ (K-FLEX® ST)	0,033 W/(m•K) a 0°C	
Diam. and thickness tolerance	+ 1 mm (+/- 1 mm)	
Fire rating	Euroclass B_L-s2, d0	EN 13501-1

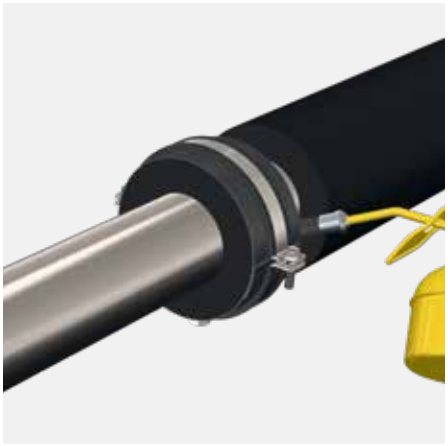
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APPLICATION

- Place the insulating support around the pipe.
- Spread K-FLEX® adhesive onto the half-collars.
- Seal lengthways using the adhesive overlap.
- Fix the collar around the support.
- Glue the support to the insulating material.







NOTES

NOTES

CONTACT

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