



EDITION 2021

# GENERAL CATALOGUE



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All information is correct at the time of publication and subject to our terms and conditions.

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This price list 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.

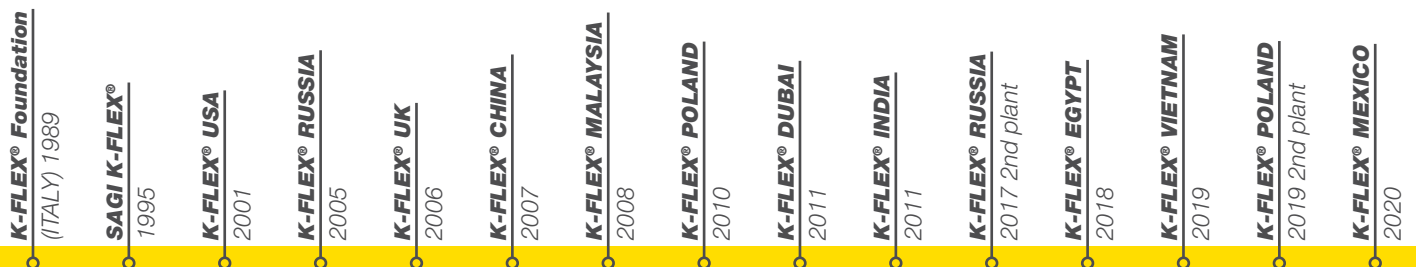
**THIRTY YEARS OF HISTORY:  
SYNONYMOUS WITH QUALITY,  
PROFESSIONALISM AND PASSION**

## 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**

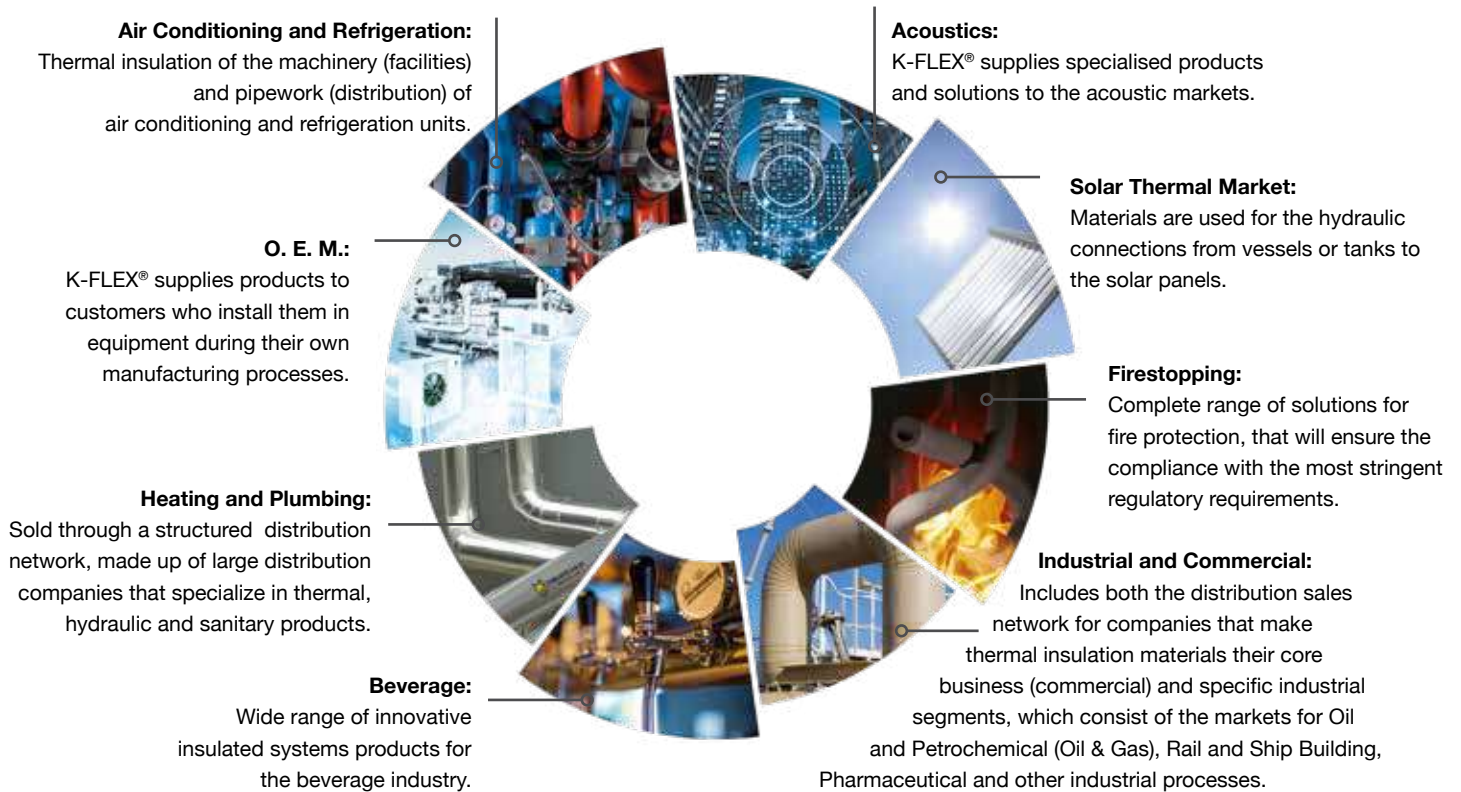
## PLANT TIMELINE



K-FLEX® 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:



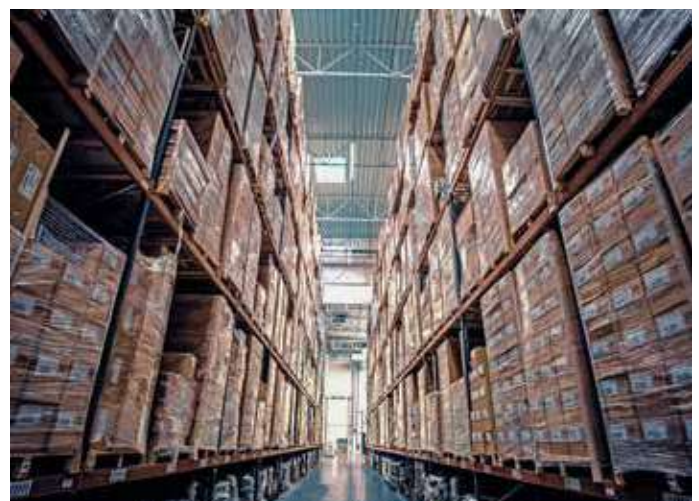
## MISSION

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 warehouse 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.

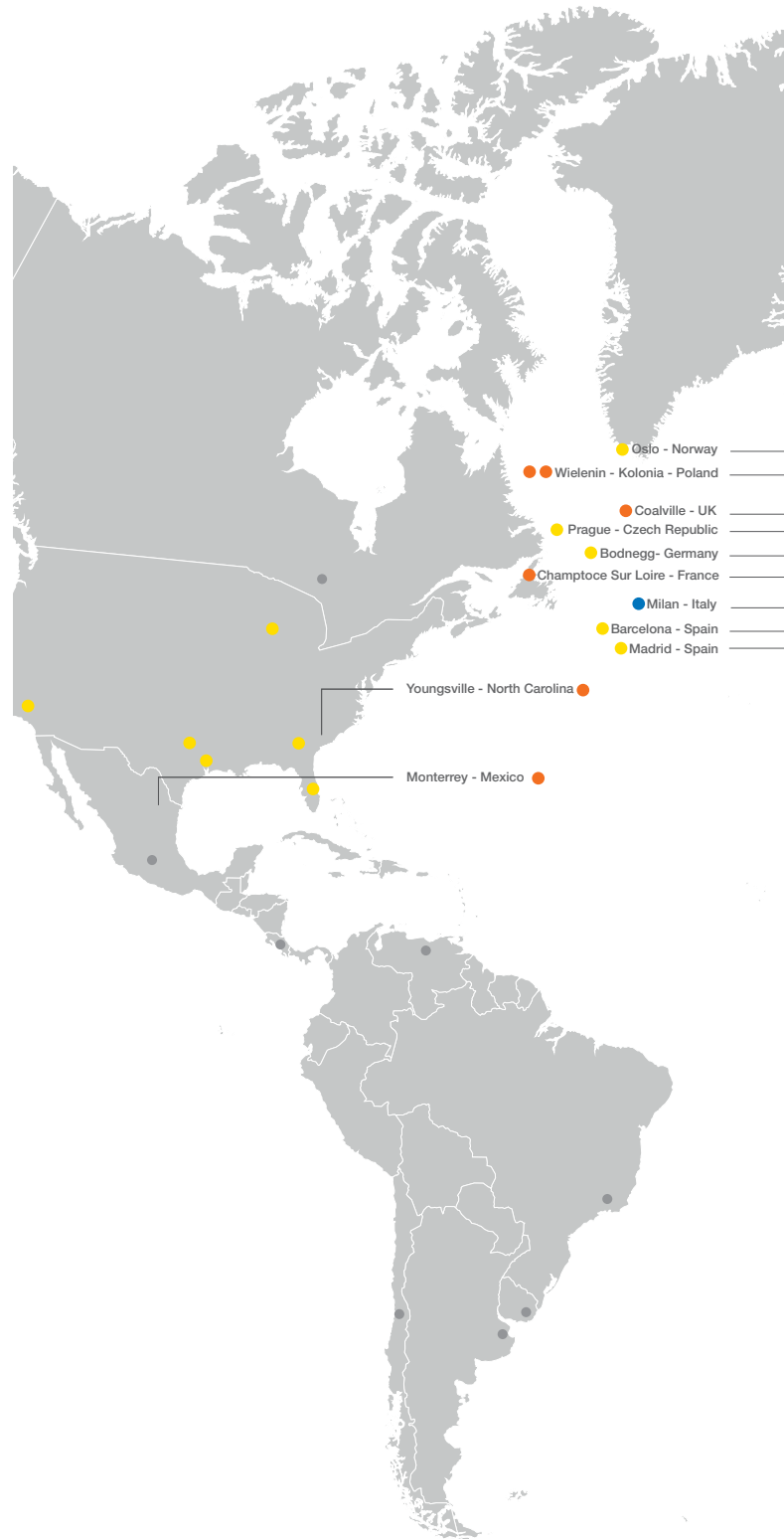
K-FLEX®'s international production network is in response to a rapidly expanding insulation market. Unlike other markets, K-FLEX® does not globalize as a strategy to decrease labour costs, but instead, is expanding in order to more efficiently reach local markets. Thermal insulation materials are high 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.

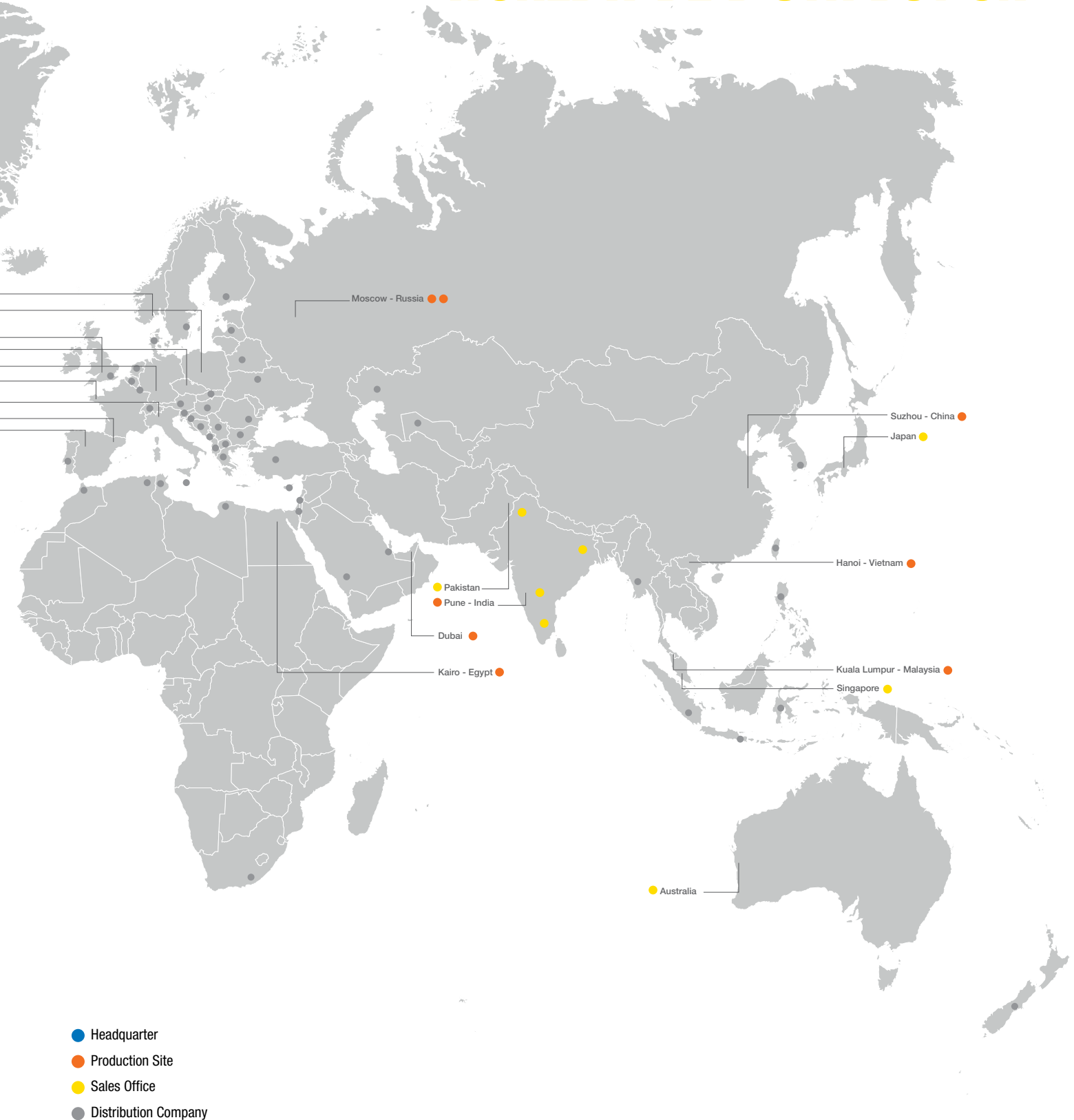
### Further Expansion











K-FLEX® is focused on continuing to utilize its international 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
- **14** Plants Worldwide
- **3.000+** 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® 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	•	•			•					



		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 CELL 160	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*
	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											
	Engine and frames, partitions, technical installations				•							
	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	210	39	32	21	210	120	239	12	
	K-FLEX® EC			18	207					
	K-FLEX® ECO									
	K-FLEX® SOLAR HT									
	Tubes 2m: K-FLEX® COLOR	210	39	39	15	210	120	245	12	
	Tubes 2m: K-FLEX® PE	208	59	39	10	210	118	223	12	
	K-FLEX® PE PLUS									
	K-FLEX® PE COLOR									
	K-FLEX® PE PLUS COLOR									
	Tubes 2m: K-FLEX® PE	208	39	32	18	210	118	223	12	
	K-FLEX® PE PLUS									
	K-FLEX® PE COLOR									
	K-FLEX® PE PLUS COLOR									
	Tubes 1m: K-FLEX® COLOR	108	39	39	36	210	120	255	12	
	K-FLEX® IC CLAD									
	K-FLEX® IN CLAD									
	K-FLEX® SRC ECO									
	K-FLEX® AL CLAD									
	K-FLEX® K-ROCK****									
	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	210	120	255	12	
					16	120	80	251		
					30	210	120	215		
					12	120	80	192		
	Tubes in coils: K-FLEX® EC-H	49	49	28	72	210	120	250	12	
	K-FLEX® H									
	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	210	120	246	12	
					32	120	80	246		
					72	210	120	204		
					36	120	80	220		
	Tubes in coils: K-FLEX® SPLIT	80	80	15	17	120	80	212		
	K-FLEX® SPLIT TWIN									







\* 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:	102	19	16,5	16	120	80	12			
	1000 mm			-	-	from 1 to 5	120	80			12
	1200 mm			-	-	1	130	110			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 QUANTITY*	PALLET DIMENSIONS (CM)			PALLET/ TRUCK QUANTITY	PALLET**
		LENGTH	WIDTH	HEIGHT		LENGTH	WIDTH	HEIGHT		
	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 QUANTITY*	PALLET DIMENSIONS (CM)			PALLET/ TRUCK QUANTITY	PALLET**
		LENGTH	WIDTH	HEIGHT		LENGTH	WIDTH	HEIGHT		
	K-FLEX® TWIN SOLAR SYSTEM	80	80	29	14	160	80	218		
		80	80	39	12	160	80	249		
		80	80	55	8	160	80	235		
		80	80	65	6	160	80	210		
	K-FLEX® SOLAR R (Tube in coils)	60	60	45	40	212	118	245		
	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	2	120	120	175		
		120	120	64	2	120	120	143		
		80	80	82	2	80	80	179		
		115	115	84	2	120	120	183		

\* Maximum number per pallet

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

# ***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.



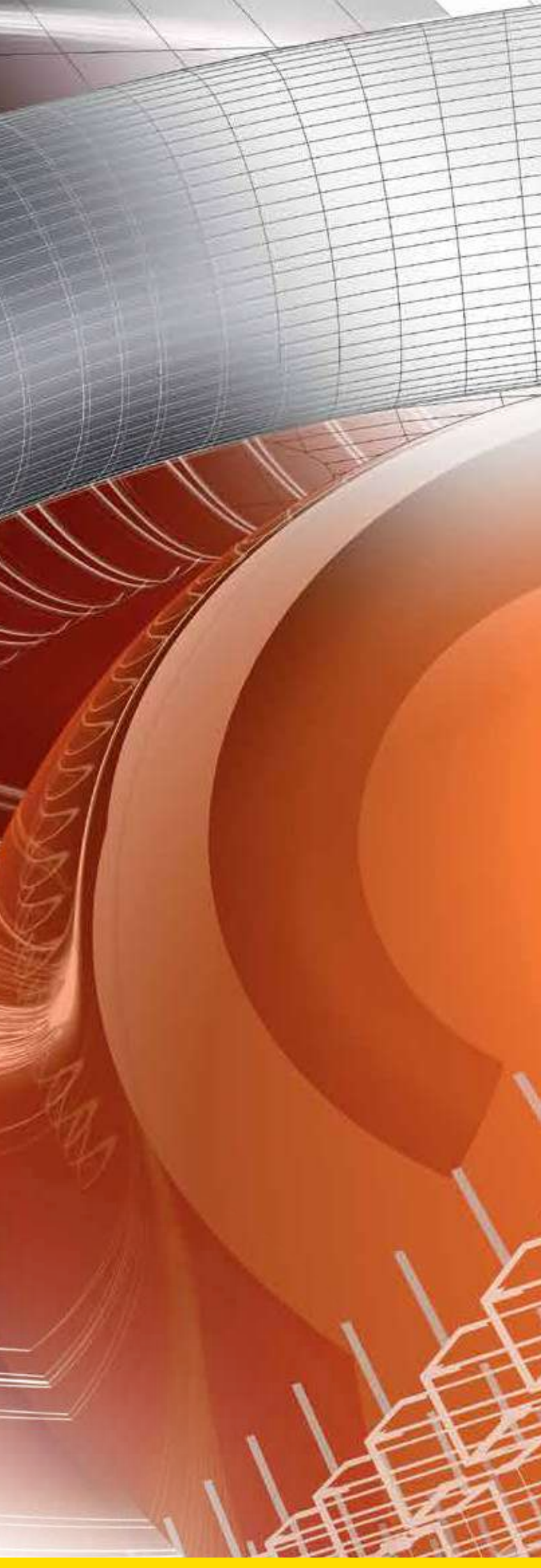


# **K-FLEX<sup>®</sup>**

## **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<sub>L</sub>-s2, d0
- ▶ Very fine closed cellular structure and high technical performance
- ▶ Resistant to mould, fungi and bacteria
- ▶ Light and flexible

Site



Video



App. Manual



**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 $\lambda$ W/(m•K)	<table border="1"> <thead> <tr> <th>Thicknesses ≤ 25mm</th> <th>Thicknesses &gt; 25mm</th> </tr> </thead> <tbody> <tr> <td>-20 °C = 0,031</td> <td>-20 °C = 0,034</td> </tr> <tr> <td>0 °C = 0,033</td> <td>0 °C = 0,036</td> </tr> <tr> <td>+20 °C = 0,035</td> <td>+20 °C = 0,038</td> </tr> <tr> <td>+40 °C = 0,037</td> <td>+40 °C = 0,040</td> </tr> </tbody> </table>	Thicknesses ≤ 25mm	Thicknesses > 25mm	-20 °C = 0,031	-20 °C = 0,034	0 °C = 0,033	0 °C = 0,036	+20 °C = 0,035	+20 °C = 0,038	+40 °C = 0,037	+40 °C = 0,040	EN 12667 EN ISO 8497
Thicknesses ≤ 25mm	Thicknesses > 25mm											
-20 °C = 0,031	-20 °C = 0,034											
0 °C = 0,033	0 °C = 0,036											
+20 °C = 0,035	+20 °C = 0,038											
+40 °C = 0,037	+40 °C = 0,040											
Corrosion prevention	pH neutral (7)	EN 13468										
Permeability $\mu$	≥ 10000      ≥ 7000	EN 12086										
Fire rating	K-FLEX® ST Tubes: Euroclass B <sub>1</sub> -s2, d0 K-FLEX® ST/SK: Euroclass B <sub>1</sub> -s2, d0 K-FLEX® ST Sheets: Euroclass B-s3, d0 Class 0	EN 13501-1 EN 13501-1 EN 13501-1 BS 476 Part 6/7										
Ecological data	Without CFCs and HCFCs											
Approvals	Environmental Product Declarations EPD R1-HL2 ECO-BAU and MINERGIE-ECO CE-MARINE (Bureau Veritas) ABS (American Bureau of Shipping) DNV Lloyd's Register UL94 FM Approval	UNI ISO 14025 & EN 15804:2012+A2:2019 EN 45545-2: 2013										

\* 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
	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<sup>®</sup>**

## **SRC-SRC ECO**

**K-FLEX<sup>®</sup>**  
**SRC ECO**  
**B<sub>L</sub>-s1,d0**

**Halogen  
Free**







### **K-FLEX® SRC - SRC ECO**

- ▶ Products with reaction to fire euroclass B<sub>1</sub>-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



Brochure



App. Manual



## TECHNICAL DATA



K-FLEX® SRC ECO ▶ TECHNICAL DATA		
Property ▼	Value ▼	Test method ▼
Temperature range	from -40 °C* to +85 °C	EN 14706
Thermal conductivity $\lambda$ 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 $\mu$	$\geq 3000$	EN 12086
Fire rating	Tube: B <sub>s1</sub> ,d0 Sheet: B <sub>s2</sub> ,d0 Tape: B <sub>s1</sub> ,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 $\lambda$ 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 $\mu$	$\geq 10000$	EN 12086
Fire rating	B <sub>s2</sub> ,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<sub>L</sub>-s1, d0/ B-s2, d0.

The main advantages of **K-FLEX® SRC ECO** are:

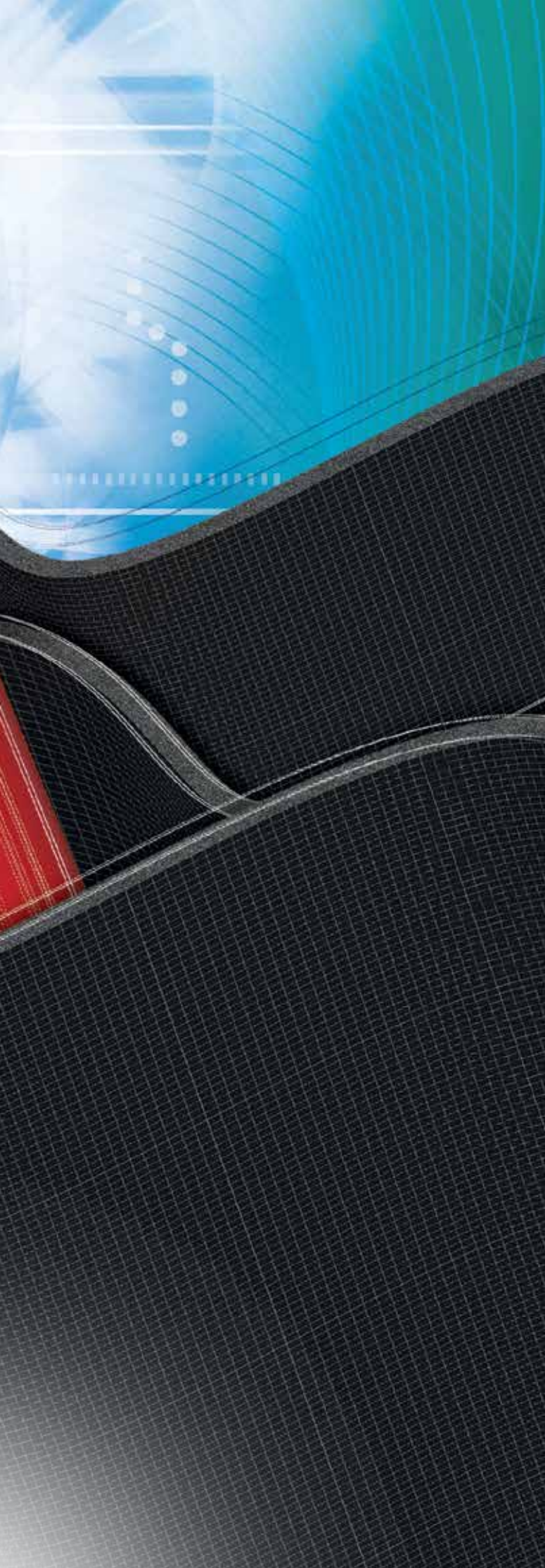
- ▶ No halogen in the composition or expansion of the elastomeric material.
- ▶ No smoke containing hydrohalic acids and organochlorine compounds in case of fire.
- ▶ Retarded ignition of the flame.
- ▶ Retarded flame propagation.
- ▶ Reduced emission of smoke.
- ▶ Higher mechanical properties with respect 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 ▼
K-FLEX® SRC ECO - Tubes	1 m	9-13-19-25-32 mm
	▼ Thicknesses ▼	▼ Diameters ▼
K-FLEX® SRC ECO - Tubes	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® 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



App. Manual



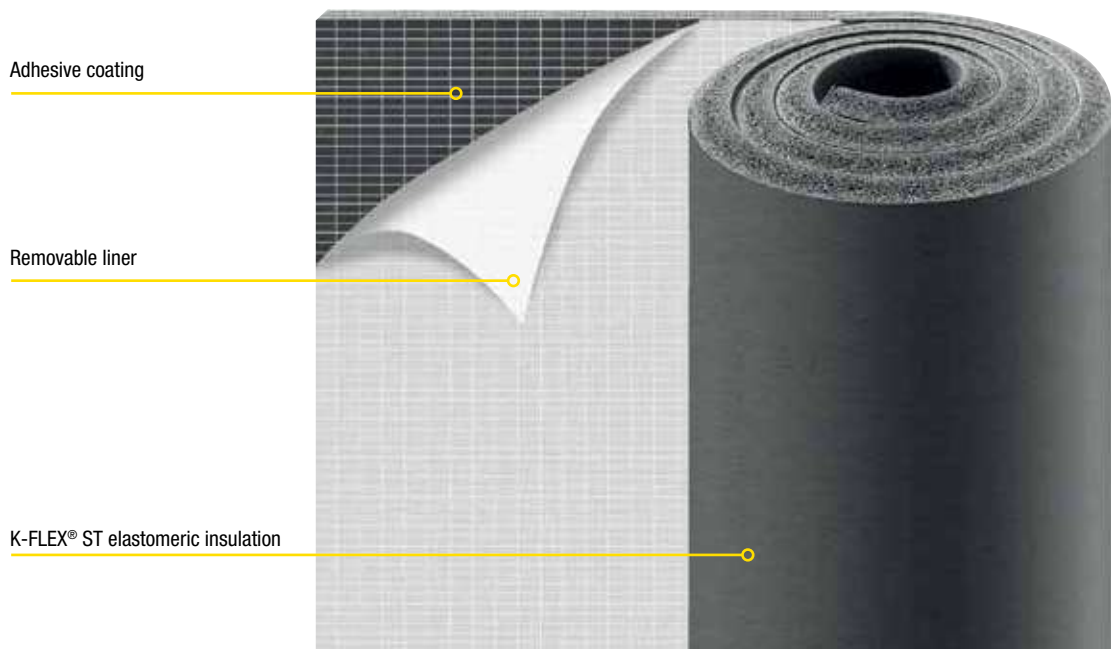
## TECHNICAL DATA



K-FLEX® ST DUCT ▶ TECHNICAL DATA												
Property	Value	Test method										
Temperature range	from -40 °C to +85 °C	EN 14706 EN 14707										
Thermal conductivity $\lambda$ W/(m•K)	<table border="1"> <thead> <tr> <th>Thicknesses <math>\leq</math> 25mm</th> <th>Thicknesses <math>&gt;</math> 25mm</th> </tr> </thead> <tbody> <tr> <td>-20 °C = 0,031</td> <td>-20 °C = 0,034</td> </tr> <tr> <td>0 °C = 0,033</td> <td>0 °C = 0,036</td> </tr> <tr> <td>+20 °C = 0,035</td> <td>+20 °C = 0,038</td> </tr> <tr> <td>+40 °C = 0,037</td> <td>+40 °C = 0,040</td> </tr> </tbody> </table>	Thicknesses $\leq$ 25mm	Thicknesses $>$ 25mm	-20 °C = 0,031	-20 °C = 0,034	0 °C = 0,033	0 °C = 0,036	+20 °C = 0,035	+20 °C = 0,038	+40 °C = 0,037	+40 °C = 0,040	EN 12667
Thicknesses $\leq$ 25mm	Thicknesses $>$ 25mm											
-20 °C = 0,031	-20 °C = 0,034											
0 °C = 0,033	0 °C = 0,036											
+20 °C = 0,035	+20 °C = 0,038											
+40 °C = 0,037	+40 °C = 0,040											
Corrosion prevention	pH neutral (7)	EN 13468										
Permeability $\mu$	$\geq$ 7000	EN 12086										
Fire rating	K-FLEX® ST DUCT: Euroclass B-s3, d0 K-FLEX® ST DUCT ALU: Euroclass D-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.

**Practical:** 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



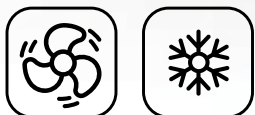
## PROJECTS

Italy, Rimini  
Mall "Le Befane"





**K-FLEX<sup>®</sup>**  
**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



App. Manual





## 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 $\lambda$ W/(m•K)	Thicknesses $\leq$ 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 $\mu$	$\geq$ 10000	EN 12086
Fire rating	Euroclass B <sub>1</sub> -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

K-FLEX® ST FRIGO elastomeric insulation



## 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.

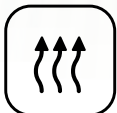
Easy to transport: On request we can also supply **K-FLEX® ST FRIGO** in industrial sized cartons: 800 x 800 x 400 mm

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

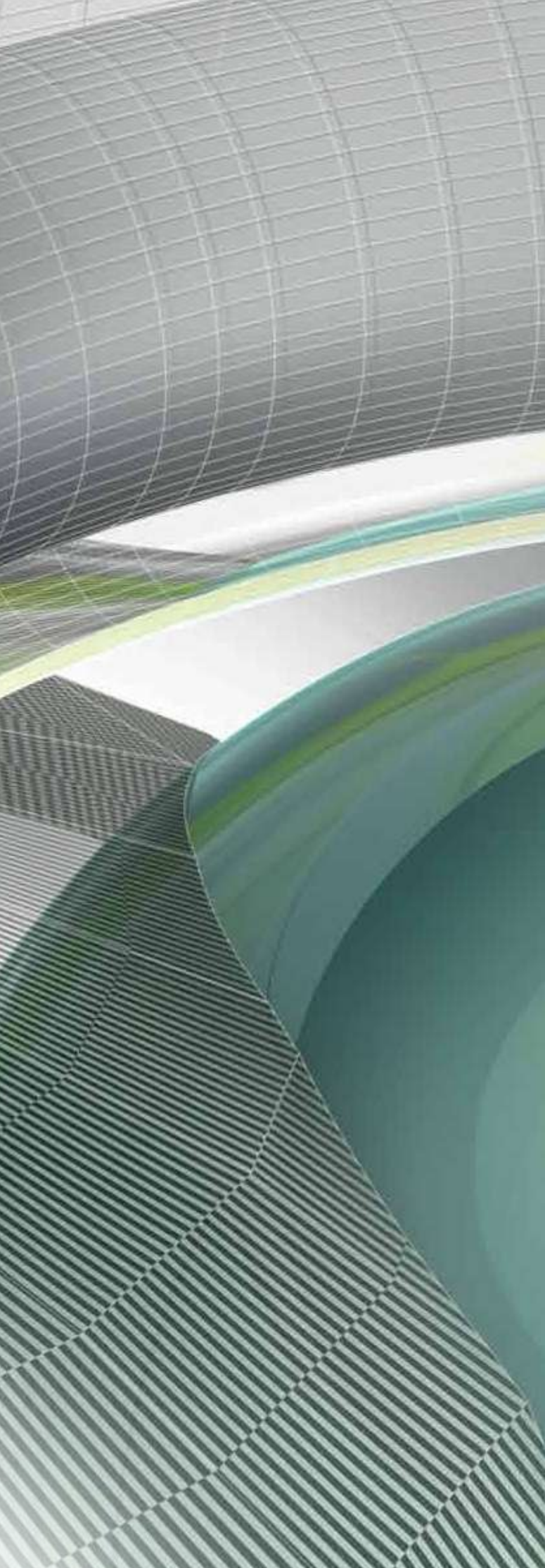


# **K-FLEX<sup>®</sup>**

## **EC**







### **K-FLEX® EC**

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

Site



App. Manual



## 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 $\lambda$ W/(m•K)	Thicknesses $\leq$ 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
Corrosion prevention	pH neutral (7)	EN 13468
Permeability $\mu$	$\geq$ 7000	EN 12086
Fire rating	Euroclass B <sub>L</sub> -s3, d0 Class 1	EN 13501-1 BS 476 Part 6/7
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 keeping 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.

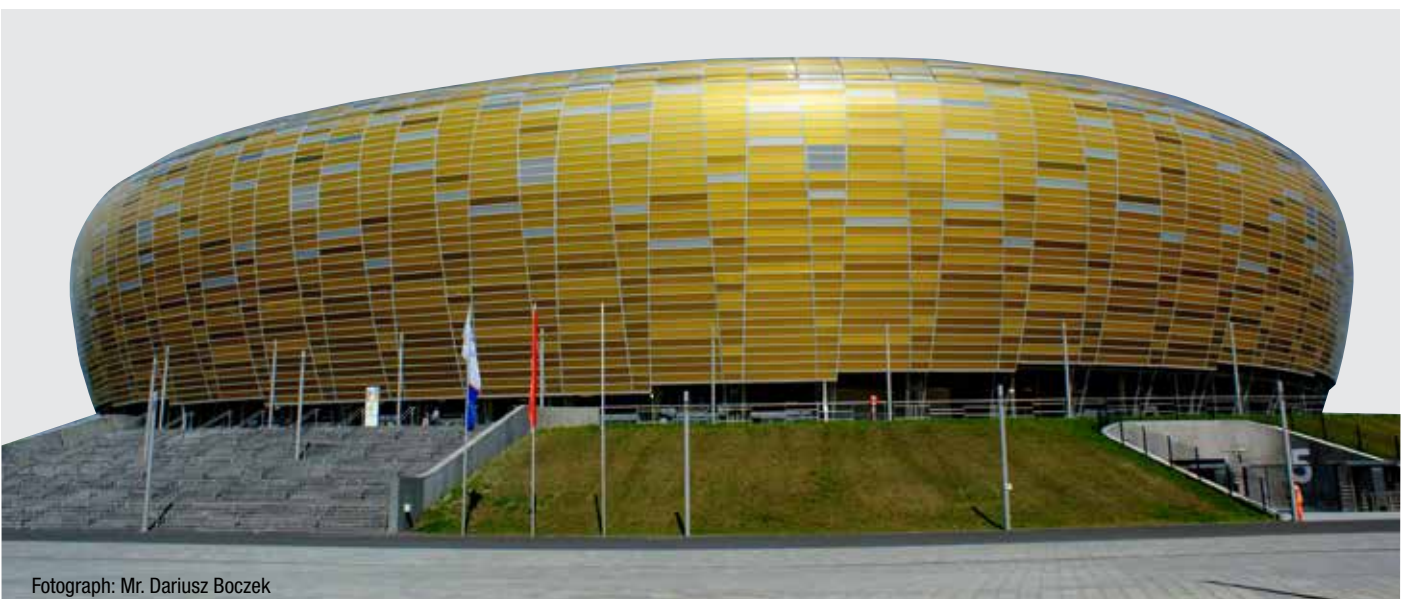


**K-FLEX® EC ▶ RANGE**

	▼ 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/Cartron ▼	9 mm ▼ m/Cartron ▼	13 mm ▼ m/Cartron ▼
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**

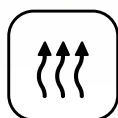
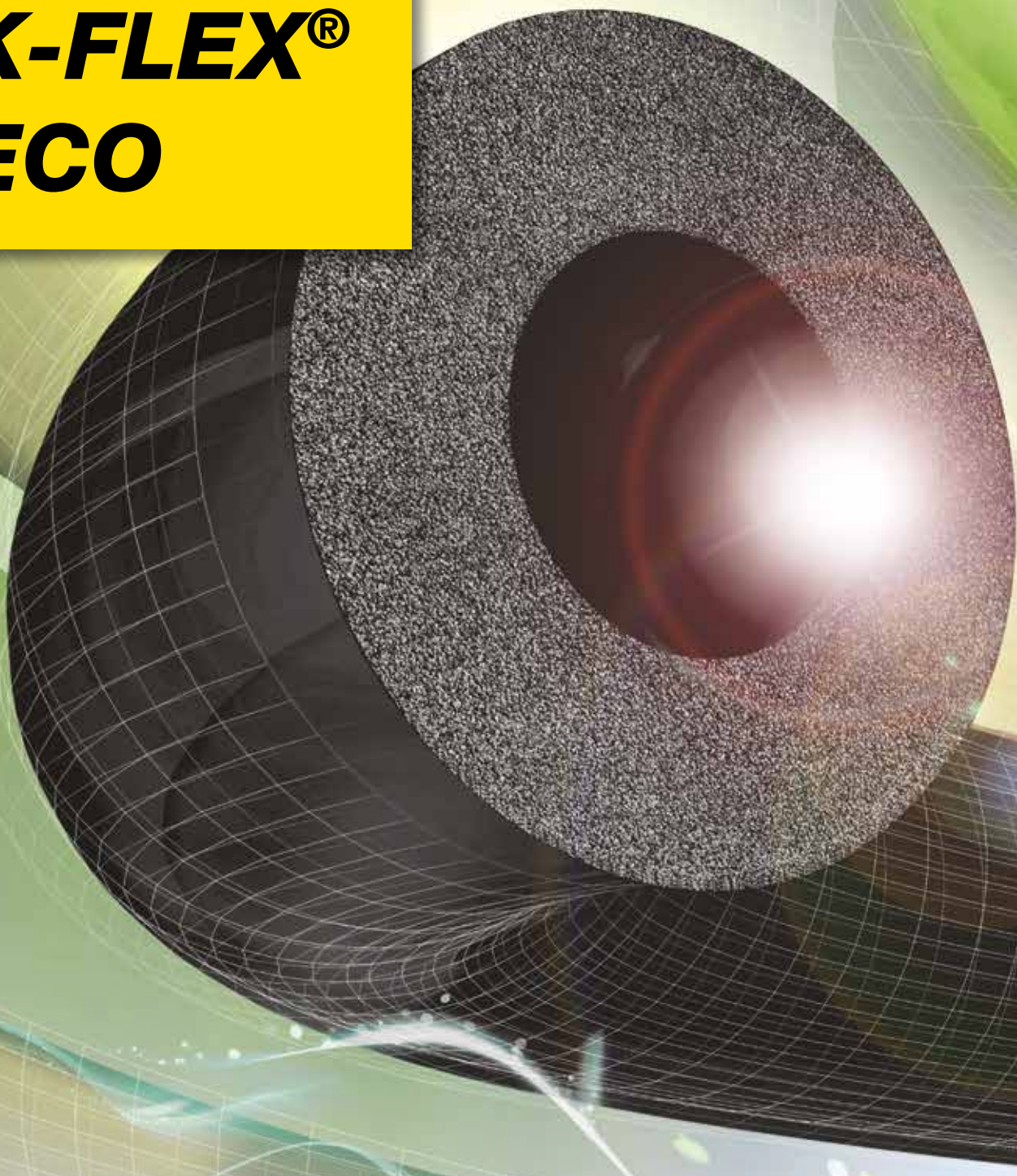
PGE Arena, Polen



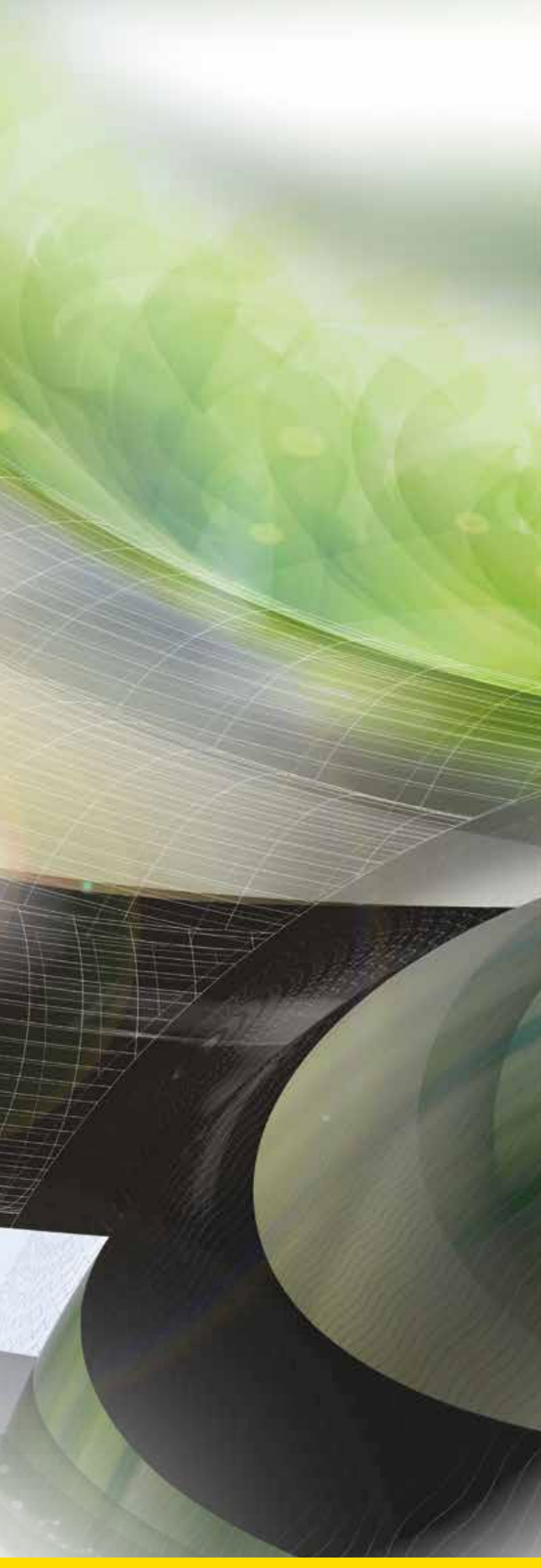
Fotograph: Mr. Dariusz Boczek

# **K-FLEX<sup>®</sup>**

## **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



App. Manual





**TECHNICAL DATA**



K-FLEX® ECO ► TECHNICAL DATA		
▼ Property ▼	▼ Value ▼	▼ Test method ▼
Temperature range	from -165 °C* to +150 °C	EN 14706 EN 14707
Thermal conductivity $\lambda$ 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 $\mu$	$\geq 3000$	EN 12086
Fire rating	K-FLEX® ECO Tubes: Euroclass D <sub>1</sub> -s2, d0 K-FLEX® ECO Sheets: Euroclass E Class 1	EN 13501-1 EN 13501-1 BS 476 Part 6/7
Ecological data	Halogen free - PVC - CFC - HCFC Free	
Fume classification (toxicity)	IMO Resolution MSC 307 (88)	
Fume density (NBS room)	$\leq$ Dm 200	
Color	Black	
Approvals	Environmental Product Declarations EPD R1-HL2 ECO-BAU and MINERGIE-ECO CE-MARINE (Bureau Veritas) ABS (American Bureau of Shipping) DNV Lloyd's Register UL94	UNI ISO 14025 & EN 15804:2012+A2:2019 EN 45545-2: 2013

\* 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
K-FLEX® ECO - Sheets	6-10-13-19-25-32-40-50 mm	▼ Thicknesses ▼	▼ Height ▼
K-FLEX® ECO - Adhesive sheets	6-10-13-19-25-32-40-50 mm		1000 mm



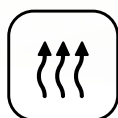
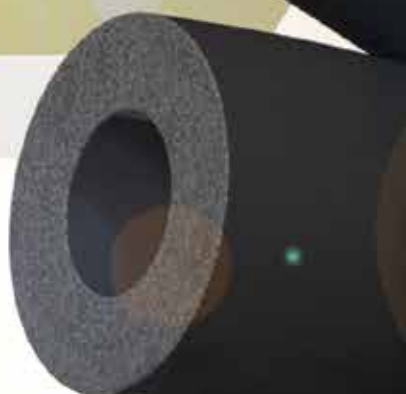
## PROJECTS

Italy



# **K-FLEX<sup>®</sup>**

## **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



App. Manual



## 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 $\lambda$ 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**

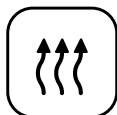
Zamo, Poland



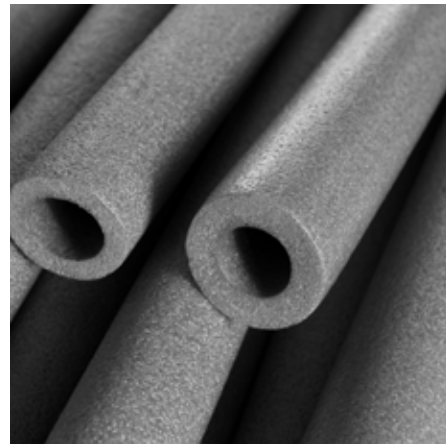


# **K-FLEX<sup>®</sup>**

## **PE**







### **K-FLEX® PE**

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

**New!**

**TECHNICAL DATA**



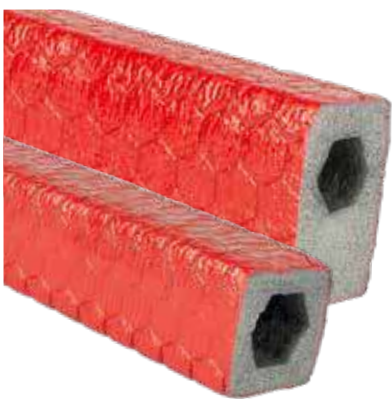
K-FLEX® PE/PE PLUS ► TECHNICAL DATA		
Property ▼	Value ▼	Test method ▼
Temperature range	+100°C	EN 14707
Thermal conductivity $\lambda$ W/(m•K)	+10 °C = 0,036 +40 °C = 0,040	EN ISO 8497
Corrosion prevention	pH neutral (7)	
Fire rating	K-FLEX® PE: Euroclass D <sub>1</sub> -s1, d0 K-FLEX® PE PLUS: Euroclass B <sub>1</sub> -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	+100°C	EN 14707
Thermal conductivity $\lambda$ 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 <sub>1</sub> -s1, d0 K-FLEX® PE PLUS COLOR: Euroclass B <sub>1</sub> -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	+90°C	EN 14707
Thermal conductivity $\lambda$ 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 <sub>L</sub> K-FLEX® PE RECTANGULAR: Euroclass E <sub>L</sub>	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 $\lambda$ 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.

**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.

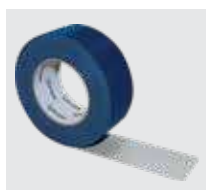
**K-FLEX® FONOMETAL** is designed to reduce the noise transmission of exhaust pipes in civil and industrial construction.

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	4-6-9-13-20-25 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	from 45 to 150 m	5-9 mm	from 42 to 160 mm

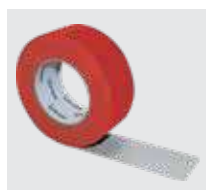
## K-FLEX® ACCESSORIES



K-FLEX® CLOTH DUCT TAPE



K-FLEX® K 420 Glue



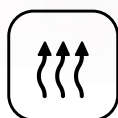
K-FLEX® GLUE DISPENSER

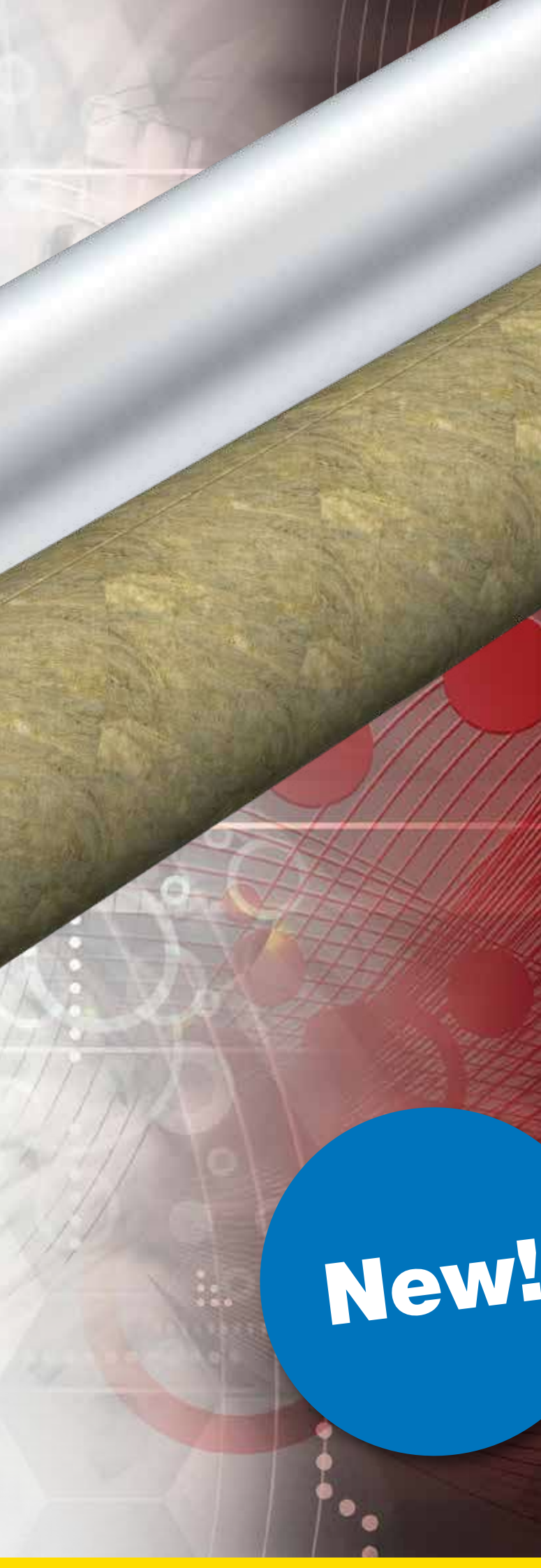


**K-FLEX®  
PE COLOR**  
available in **COILS**  
format for **4-6 mm**  
thickness

# **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 high and low temperatures for boilers, ducts, ovens and other industrial equipment

**New!**



**TECHNICAL DATA**



K-FLEX® K-ROCK ▶ TECHNICAL DATA			
Property	Value		Test method
Maximum service temperature	+600 °C		EN 14706
Thermal conductivity $\lambda$ W/(m•K)	+50 °C = 0,039	+250 °C = 0,081	EN ISO 8497
	+100 °C = 0,046	+300 °C = 0,096	
	+150 °C = 0,056	+350 °C = 0,115	
	+200 °C = 0,067	+400 °C = 0,135	
Water absorption	WS01 ( $\leq$ 1.00 kg/m <sup>2</sup> )		EN 13472
Fire rating	Euroclass A1L		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 $\lambda$ W/(m•K)	+50 °C = 0,039	+250 °C = 0,081	EN ISO 8497
	+100 °C = 0,046	+300 °C = 0,096	
	+150 °C = 0,056	+350 °C = 0,115	
	+200 °C = 0,067	+400 °C = 0,135	
Water absorption	WS01 ( $\leq$ 1.00 kg/m <sup>2</sup> )		EN 13472
Fire rating	Euroclass A2L-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 and protection against fire.

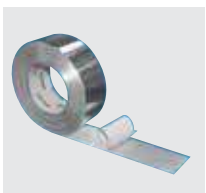
**K-FLEX® K-ROCK ALU** pipes are ideal for pipework carrying hot and cold fluid in building facilities.

## 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

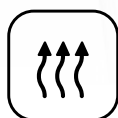
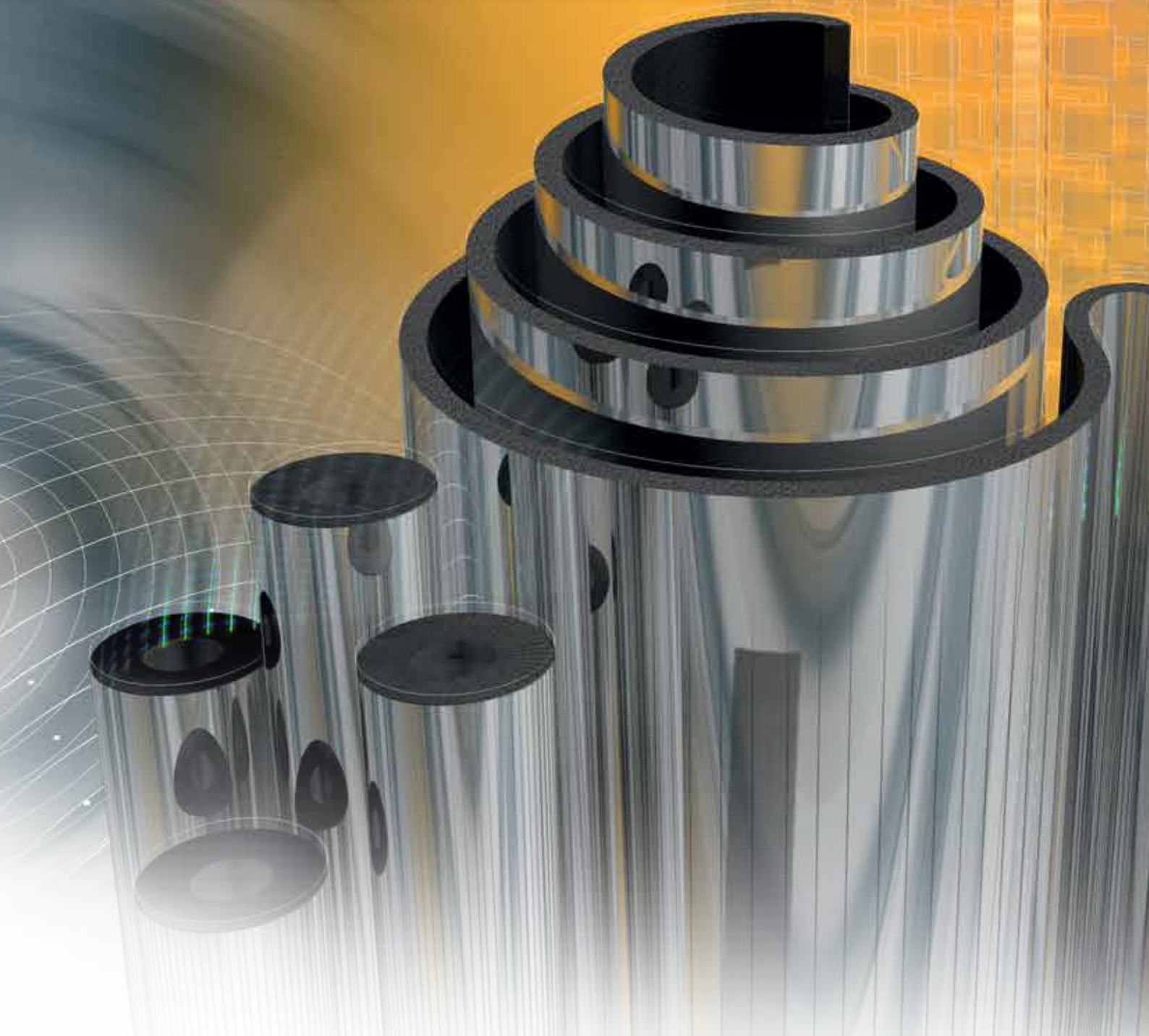
## K-FLEX® ACCESSORIES



### 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® 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



App. Manual



**TECHNICAL DATA**

<b>K-FLEX® AL CLAD JACKETING (COVERING FOIL) ▶ TECHNICAL DATA</b>			
Weight	Approx.	388 g/m <sup>2</sup>	EN 22 286
Thickness	Approx.	280 µm	DIN 53 370
Traction resistance	longitudinal	175 N/15 mm	ISO 527- 3
	transverse	175 N/15 mm	ISO 527- 3
Breaking strain	longitudinal	35 %	ISO 527- 3
	transverse	40 %	ISO 527- 3
Resistance to tearing	longitudinale	155 N/25 mm	ISO 527- 3
	trasversale	182 N/25 mm	ISO 527- 3
Resistance to bending	longitudinal	90 N/mm <sup>2</sup>	DIN 53 864
	transverse	90 N/mm <sup>2</sup>	DIN 53 864
Permeability to vapour	0,052 g/m <sup>2</sup> /d		DIN 53 122
Fire rating (with K-FLEX® ST)	Sheet: Euroclass D-s3, d0		EN 13501-1
	Tube: Euroclass C <sub>L</sub> -s3, d0		EN 13501-1
	Class 0		BS 476 Part 6/7

<b>RESISTANCE CHARACTERISTICS OF THE AL CLAD SHEET TO ATMOSPHERIC AGENTS ▶ TECHNICAL DATA</b>	
UV resistance	>2000 hours 500 W/m <sup>2</sup> (Atlas Suntest XLS+ QUV, internal test)
Radiation resistance	>3.600.000 kJ/m <sup>2</sup>
Resistance to humidity	>2000 hours UVC (internal test)

<b>K-FLEX® AL CLAD: RESISTANCE OF THE SURFACE TO AGGRESSIVE CHEMICALS ▶ TECHNICAL DATA</b>					
Acids	acetic acid (max concentration)	resistant	Hydrocarbons	Aliphatic hydrocarbon	resistant
	50% formic acid	resistant			
	10% hydrochloric acid	resistant			
	30% hydrochloric acid	partially resistant			
	10% and 35% hydrofluoric acid	resistant			
	10% nitric acid	resistant			
	65% and 100% nitric acid	partially resistant			
	30% and 85% phosphoric acid	resistant			
20% sulphuric acid	partially resistant	Other organic substances	Acetone	resistant	
Aldehydes	Acetaldehyde				resistant
Alcohols	Formaldehyde	resistant	Salt solutions	Bichromates	resistant
	Benzyl alcohol	partially resistant			
	Cyclohexanol	resistant			
	Ethyl alcohol	resistant			
	Glycerine	resistant			
	Glycol	resistant			
Isopropyl alcohol	resistant				
Alkaline solutions	Methyl alcohol	resistant	Esters	Ethyl acetate	resistant
	Ammonium hydroxide	partially resistant			
Chlorinate solvents	Calcium hydroxide	partially resistant			
	Chloroform	partially resistant			
	Trichloroethylene	partially resistant			

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
K-FLEX® AL CLAD - Sheets	6-9-13-19-25-32-40-50 mm	▼ Thicknesses ▼	▼ Height ▼
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



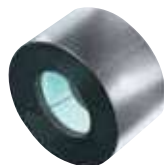
Preformed elastomeric K-FLEX® "T" section in standard sizes



AL CLAD foil, with or without adhesive



AL CLAD adhesive tape



K-FLEX® AL CLAD system pipe insulated supports

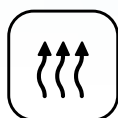


K-FLEX® AL CLAD system pipe insulated supports with collar



# **K-FLEX<sup>®</sup>**

## ***COLOR SYSTEM***





### **K-FLEX® COLOR SYSTEM**

- ▶ Colour finished insulation
- ▶ Aesthetic design
- ▶ Flexible and easy of application
- ▶ Colour coding for different services
- ▶ UV protection

Site



Video



App. Manual



**TECHNICAL DATA**

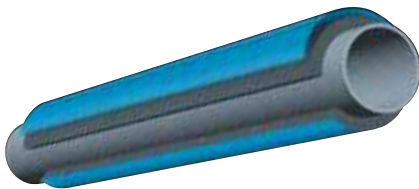


**K-FLEX® COLOR SYSTEM (FINISHING ONLY) ► TECHNICAL DATA**

▼ Property ▼	▼ Value ▼	▼ Test method ▼
WOM 2000 hours	No significant alteration	DIN 53231
Humidistat 800 hours	Elasticity remains the same	DIN 53231
Adhesion 24 hours after humidistat	Adhesion remains intact	
UVC 2000 hours QUV/SE	No blistering, no separation, no significant alterations	
Wash H2O	No alterations	
Wash H2O plus soap for hands	No alterations	
Test with solution 1	Elasticity and adhesion remain the same	DIN 53160/UAN-D1235/01
Test with solution 2	Elasticity and adhesion remain the same	DIN 53160/UAN-D1235/01
Immersion in water 60 °C 800 hours	No blistering, no separation	
Caustic soda contact to 5% 2 hours	No alterations	
Fire rating (with K-FLEX® ST)	Sheet: Euroclass C-s3, d0 Tube: Euroclass C <sub>L</sub> -s3, d0	EN13501-1 EN13501-1
Fire rating (facing only)	Class 0	BS 476 Part 6/7

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 coating offers protection against UV rays and 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**

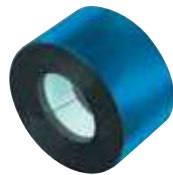
## ACCESSORIES



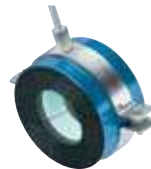
K-FLEX® COLOR preformed "T" fittings



K-FLEX® COLOR preformed elbows



K-FLEX® COLOR pipe support



K-FLEX® COLOR pipe support with collar



K-FLEX® COLOR paint



K-FLEX® COLOR anticonspation tape



## PROJECTS

Germany



# **K-FLEX<sup>®</sup>** **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



App. Manual





## 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) 120°C (248°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	$\mu > 90.000$	EN12086
Specic weight	1,8 (± 0.1 g/cm3)	
Tensile Strength	$\geq 6,9$ 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	$\geq 60$ 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	$\geq 80$ 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



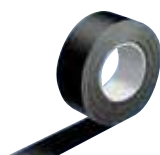
IN CLAD foil - Gray



IN CLAD foil - Black



IN CLAD tape - Gray



IN CLAD tape - Black



IN CLAD pipe support



IN CLAD pipe support with silicone 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

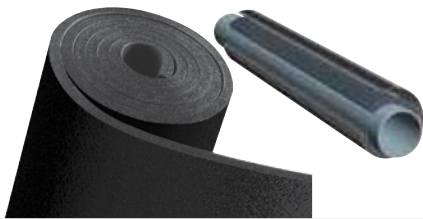
Site



App. Manual



**TECHNICAL DATA**



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

Property	Value	Tolerance	Test method
Weave pattern	Plain		DIN ISO 9354
Area weight	214 g/m <sup>2</sup>	±5%	DIN EN 12127
Tensile strength			
Warp	500 N/cm		
Weft	350 N/cm		
Finish content	4,00-6,00 %		DIN ISO 1887
Thickness	0,18 mm		DIN ISO 4603/E
Temperature Resistance			
Continuous load	180 °C		
Short time resistance	230 °C		
Fire rating (with K-FLEX® ST)	IMO Res. A 653, Class 0 BS 476 Part 6/7		
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.

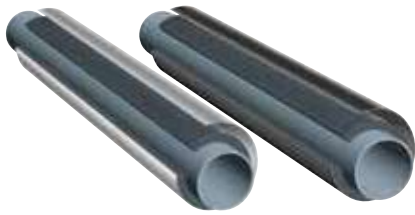


**K-FLEX® IC CLAD SYSTEM SILVER (COVERING ONLY) ▶ TECHNICAL DATA**

Property	Value	Tolerance	Test method
Weave pattern	Plain		DIN ISO 9354
Area weight	204 g/m <sup>2</sup>	±5%	DIN EN 12127
Tensile strength			
Warp	500 N/cm		
Weft	350 N/cm		
Finish content	1,00-3,00 %		DIN ISO 1887
Thickness	0,22 mm		DIN ISO 4603/E
Temperature Resistance			
Continuous load	180 °C		
Short time resistance	230 °C		
Fire rating (with K-FLEX® ST)	IMO Res. A 653, Class 0 BS 476 Part 6/7		
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



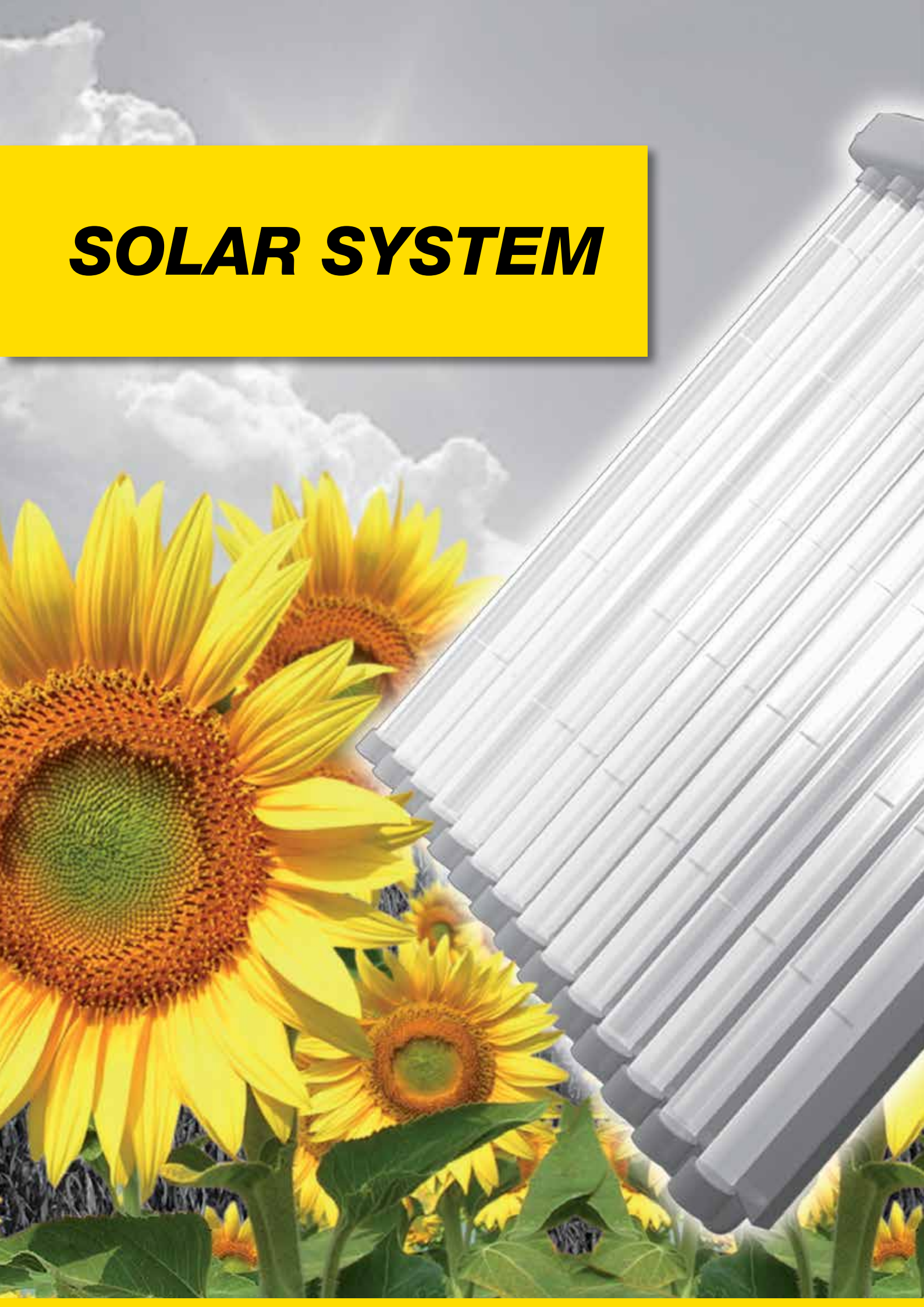
IC CLAD foil - Black



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***







### **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 $\lambda$ 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						Length
		12 mm	15 mm	18 mm	22 mm	28 mm	35 mm	
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 $\lambda$ 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

Material	AISI 316 L			
▼ Ext.Ø (mm) ▼	▼ DN ▼	▼ Thickness (mm) ▼	▼ Max service pressure (bar) ▼	▼ Bend radius (mm) ▼
21,3 ±0,2	16	0,18	16	25
26,4 ±0,2	20	0,18	10	30
31,8 ±0,4	25	0,20	10	35

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



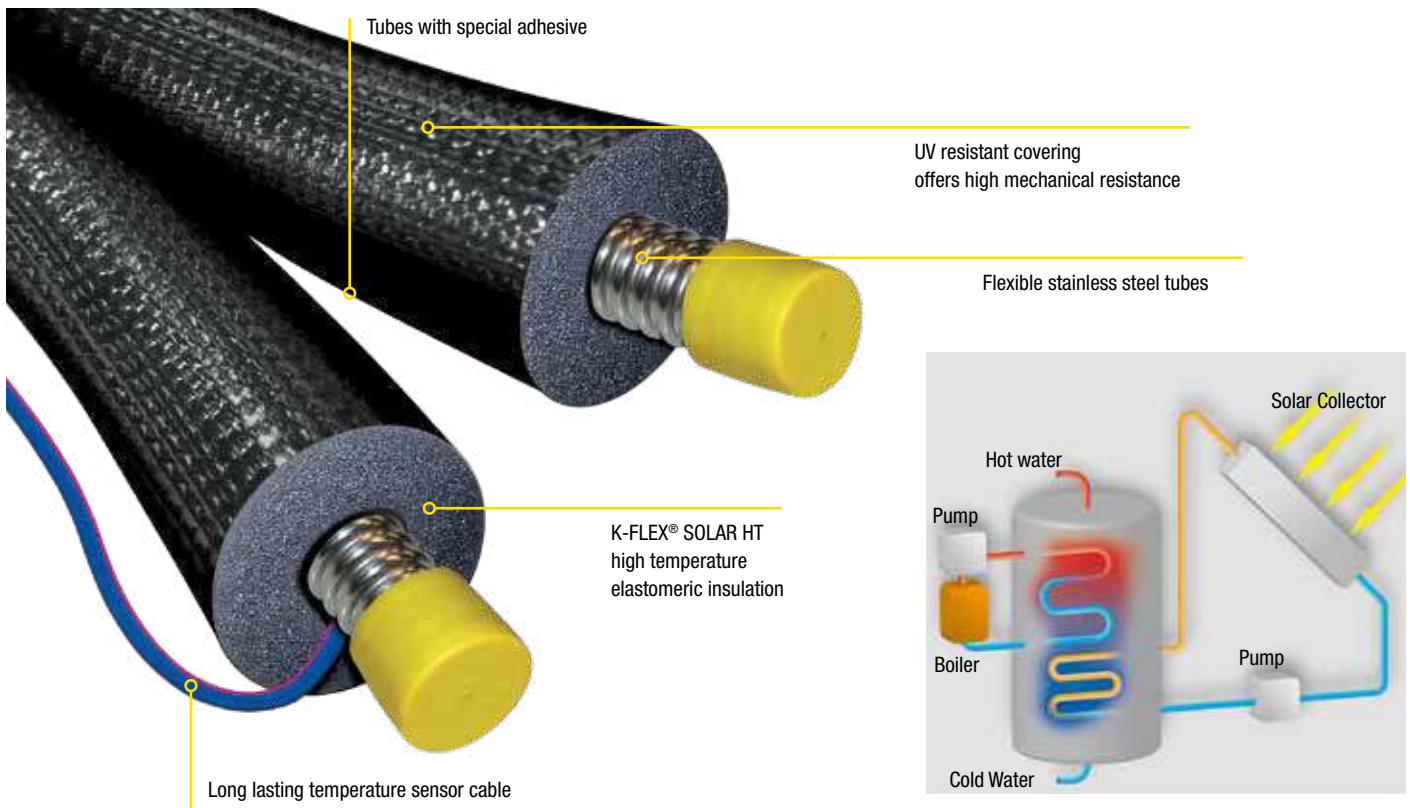
### TEMPERATURE SENSOR WIRE ► TECHNICAL DATA

▼ 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

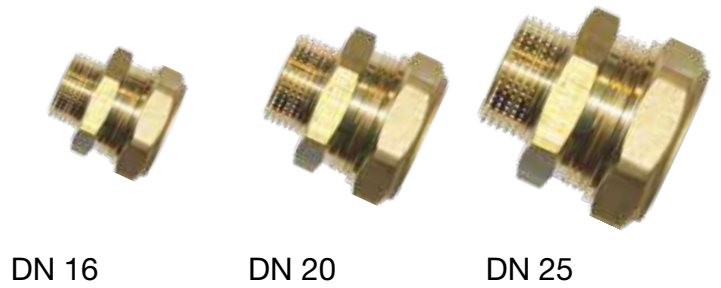
**K-FLEX® TWIN SOLAR SYSTEM** is a solar thermal insulation system which is resistant to high temperatures. It facilitates the connection of a hot water tank to a solar panel; it is designed to minimise heat loss and be resistant to chemicals and weather.



### K-FLEX® TWIN SOLAR SYSTEM ► RANGE

	STEEL TUBES		INSULATIONS	TUBE Length			
	O.D.	Wall thickness		Thickness	10 m	15 m	20 m
K-FLEX® TWIN SOLAR SYSTEM DN16	21,3 ±0,2 mm	0,18 mm	14 mm	•	•	•	•
	21,3 ±0,2 mm	0,18 mm	20 mm	•	•	•	•
K-FLEX® TWIN SOLAR SYSTEM DN20	26,4 ±0,2 mm	0,18 mm	14 mm	•	•	•	•
	26,4 ±0,2 mm	0,18 mm	20 mm	•	•	•	•
K-FLEX® TWIN SOLAR SYSTEM DN25	31,8 ±0,4 mm	0,20 mm	14 mm		•	•	•
	31,8 ±0,4 mm	0,20 mm	20 mm		•	•	•

## COMPRESSION QUICK COUPLING



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

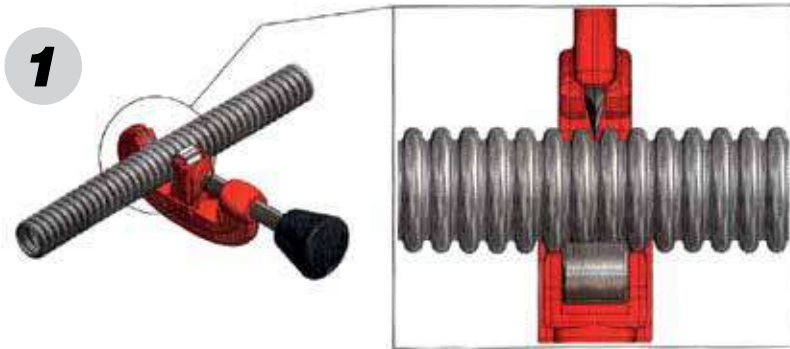


Oval Pipe Support



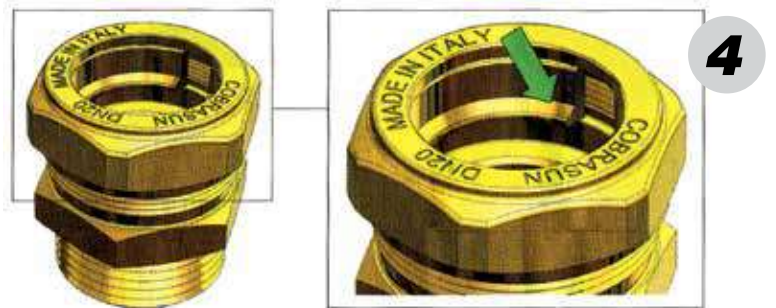
## COMPRESSION QUICK COUPLING - ASSEMBLING

Place the blade in the groove perpendicularly the pipe.

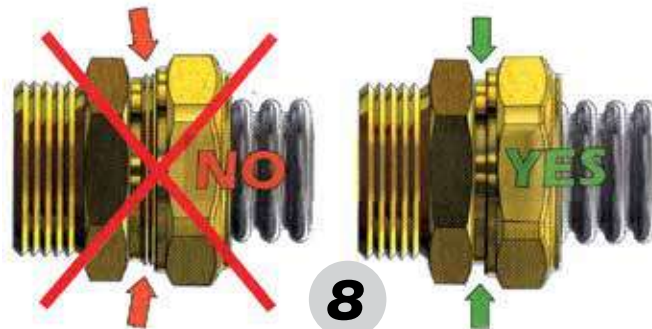
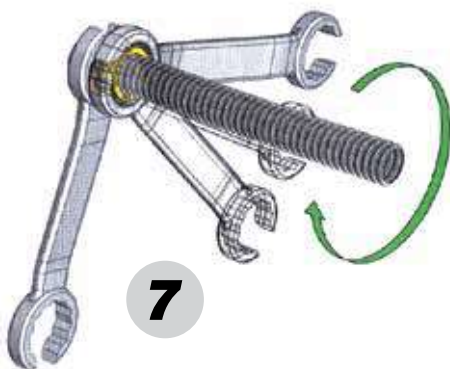
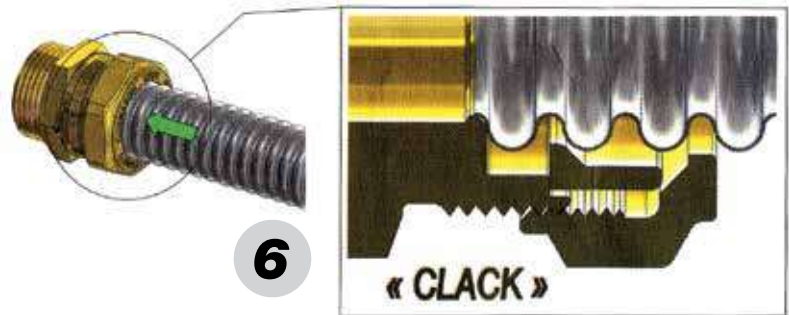


The cut must be clean and without burrs.

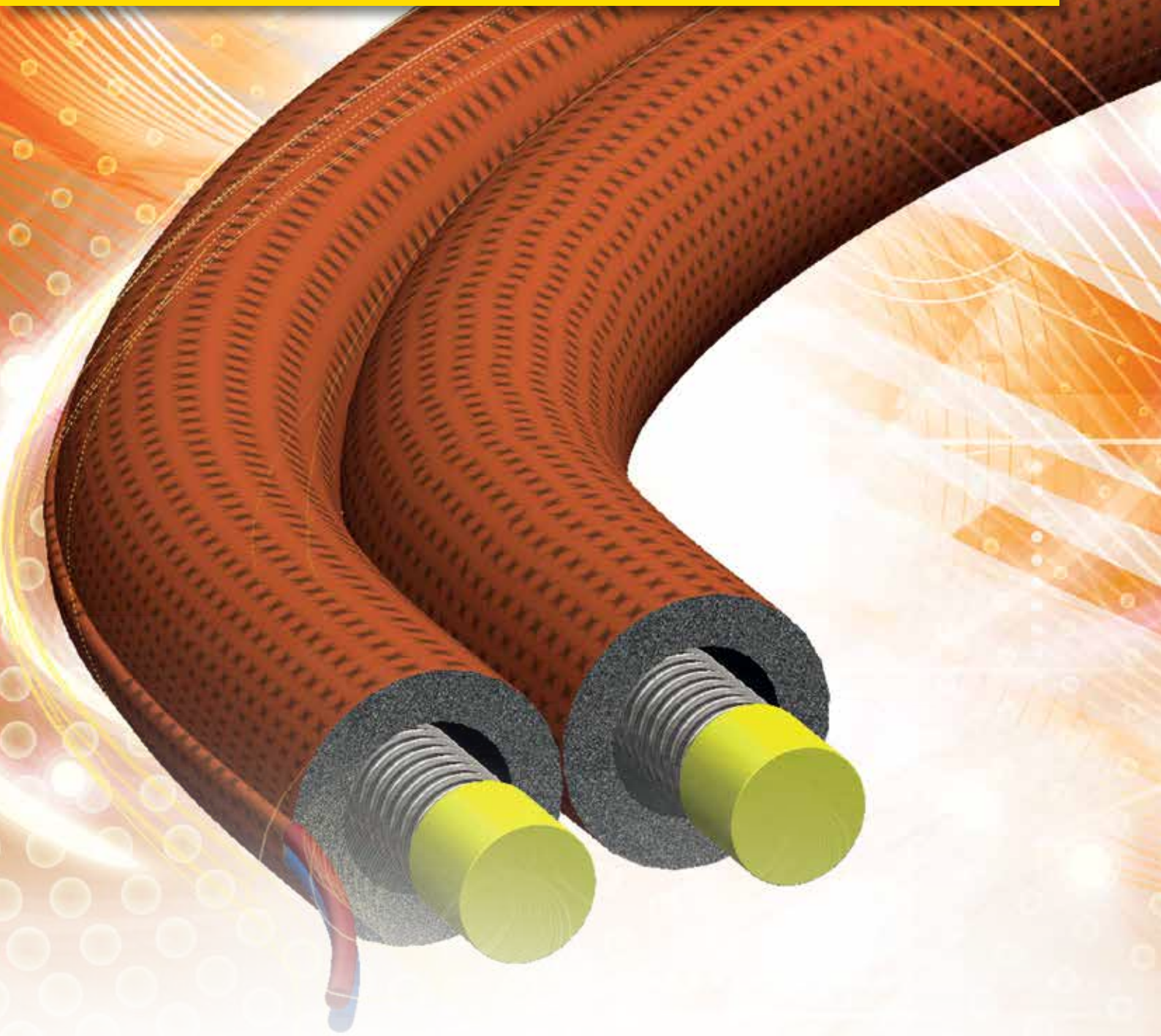
Do not disassemble the fitting: should this accidentally occur, the fool of the inner ring must be rested on the fitting body.



Manually loosen the bolt by approximately 1/2 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***







### **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 $\lambda$ 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

Material		AISI 316 L		
Ext.Ø (mm)	DN	Thickness (mm)	Max service pressure (bar)	Bend radius (mm)
21,3 ±0,2	16	0,18	16	25
26,4 ±0,2	20	0,18	10	30
31,8 ±0,4	25	0,20	10	35

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



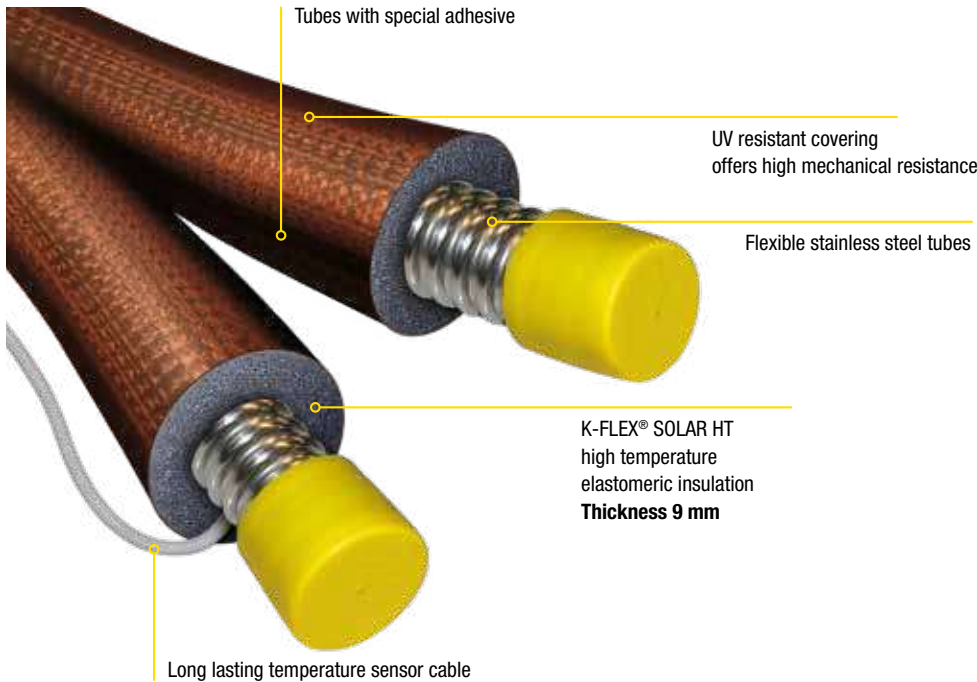
### TEMPERATURE SENSOR WIRE ▶ TECHNICAL DATA

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 20 25	9 mm 9 mm 9 mm	• • •	• • •	• • •	• • •				
K-FLEX® TWIN SOLAR SYSTEM SLIM Coils	16 20 25	9 mm 9 mm 9 mm					• • •	• • •	• • •	45 - 105 - 135 kg 55 - 110 - 120 kg 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.

OCTOBER 2021



# **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



Brochure

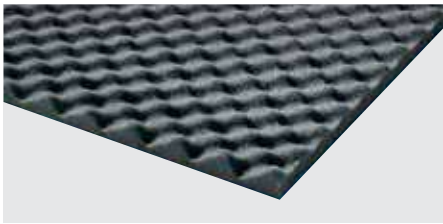


## **GENERAL INFORMATION**

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.



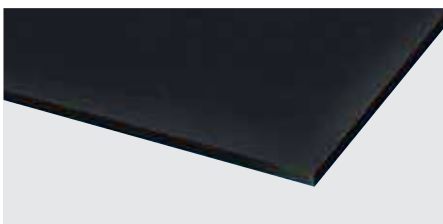
### **SOUND ABSORPTION MATERIALS**

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





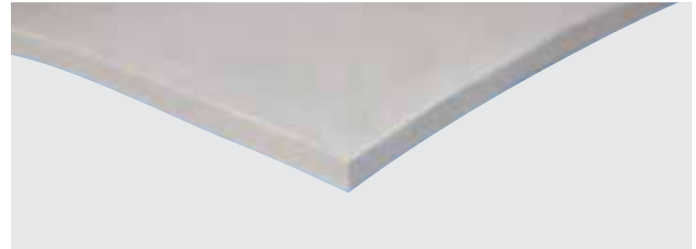
# K-FLEX®

## K-FONIK GK / GV

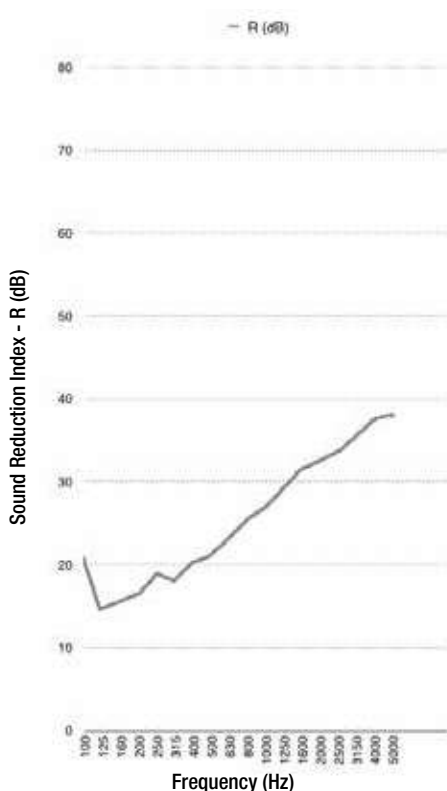
High-density elastomeric acoustic insulating panel for building, OEM and industrial applications. **The product is lead-free and therefore does not represent a health risk.**

**K-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-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)	R (dB)
100	20,9
125	14,5
160	15,6
200	16,6
250	18,8
315	17,9
400	20,2
500	21,1
630	23,1
800	25,2
1000	27,1
1250	29,2
1600	31,5
2000	32,6
2500	33,6
3150	35,6
4000	37,4
5000	37,9

$$R_w (C; C_{tr}) = 27(-1; -4) \text{ dB}$$

### APPLICATION

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

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

### RANGE

**K-FONIK GK**  
from 4 to 8 Kg/m<sup>2</sup>

**K-FONIK GV**  
from 4 to 8 Kg/m<sup>2</sup>

High-density elastomeric material

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 <sup>1</sup> , IMO A653 (CE MARINE) <sup>2</sup> , FMVSS 30 <sup>2</sup> Class 0	EN 13501 BS 476 Part 6/7
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 <sup>3</sup>	
Weight	from 4 kg/m <sup>2</sup> to 8 kg/m <sup>2</sup>	
Base colour	Black (GK) White (GV)	
Density	2000 kg/m <sup>3</sup> (±10%)	

<sup>1</sup> Only for K-FONIK GK on request <sup>2</sup> Only for K-FONIK GV

<sup>3</sup> Different finishes available: ALU and non-woven fabric

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

# K-FLEX®

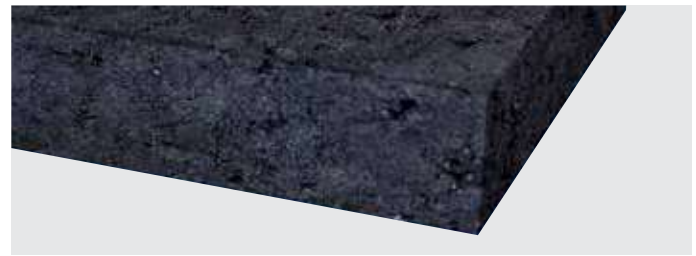
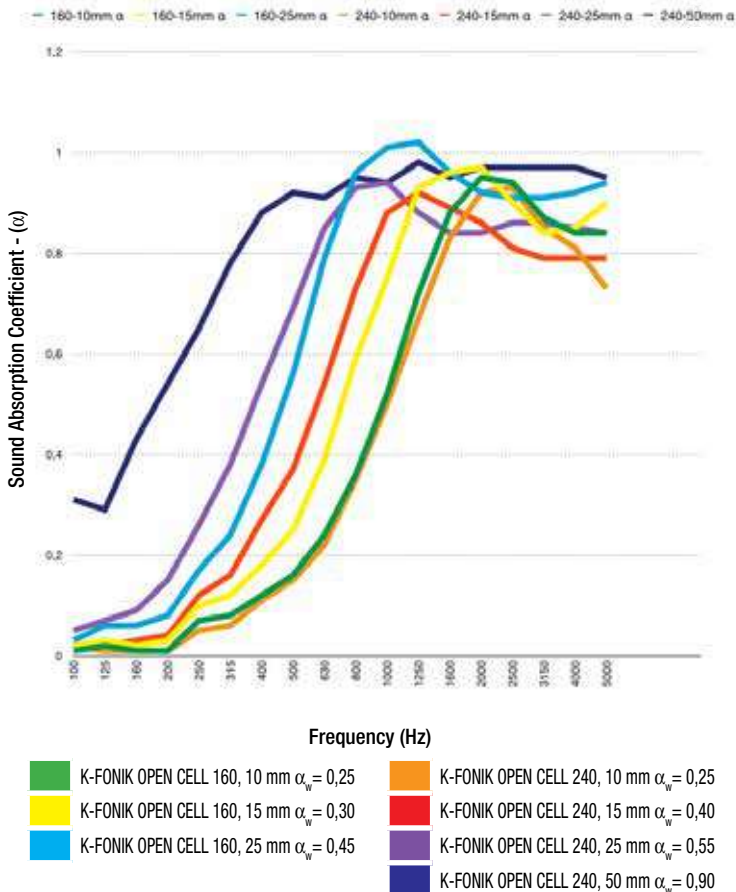
## K-FONIK OPEN CELL

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

### ACOUSTIC PERFORMANCE



### RANGE

**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	OPEN CELL 160: $\geq 100 \text{ kg/m}^3$ OPEN CELL 240: $240 \text{ kg/m}^3 (-20 / +120 \text{ kg/m}^3)$	
Thermal conductivity	OPEN CELL 240: $0,056 \text{ W/(m}\cdot\text{K)}$ OPEN CELL 160: $0,048 \text{ W/(m}\cdot\text{K)}$	EN 12667
Fire rating	C-s3,d0 Class 1	EN 13501-1 BS 476 Part 6/7
Temperature	$-40 \text{ }^\circ\text{C} +85 \text{ }^\circ\text{C}$	
Thickness	from 10 to 500 mm	
Base colour	Black	
Modulus (MPa)	$22 \pm 3,7$ (160) $57,7 \pm 8,0$ (240)	
Elongation to break (%)	$114 \pm 33$ (160) $140 \pm 47$ (240)	
Insertion Loss	K-FONIK 160 10mm $R_w=5 \text{ dB}$ K-FONIK 160 15mm $R_w=8 \text{ dB}$ K-FONIK 160 25mm $R_w=9 \text{ dB}$ K-FONIK 240 10mm $R_w=8 \text{ dB}$ K-FONIK 240 15mm $R_w=10 \text{ dB}$ K-FONIK 240 25mm $R_w=14 \text{ dB}$	

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

# K-FLEX®

## K-FONIK ST GK

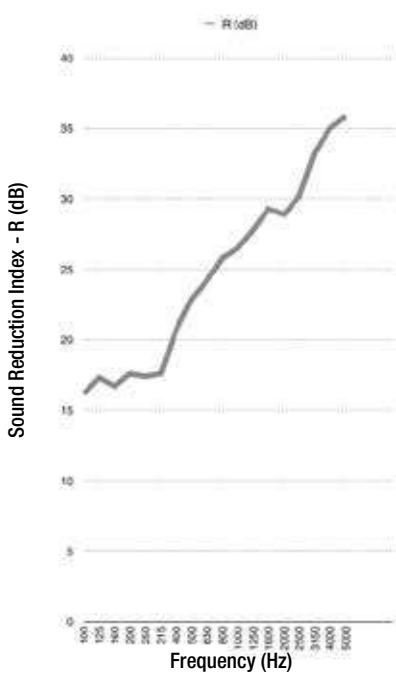
Smooth elastomeric sound insulation panel in various thicknesses, coupled with a high density elastomeric sheet. **The product is lead-free and therefore does not represent a health risk.**

**K-FONIK ST GK** combines the features of K-FONIK GK with a layer of our elastomeric K-FLEX® ST.

### APPLICATION

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

### ACOUSTIC PERFORMANCE



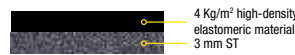
$R_w (C; C_{tr}) = 26 (0; -3) \text{ dB}$

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

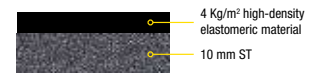


### RANGE

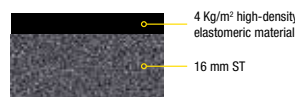
#### K-FONIK ST GK 074



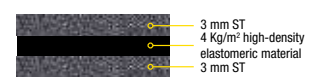
#### K-FONIK ST GK 072



#### K-FONIK ST GK 070



#### K-FONIK ST GK ST 074



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/m <sup>2</sup> (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	

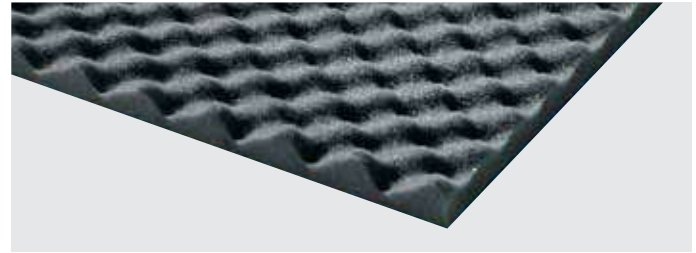
K-FLEX® reserves the right to change data and technical requirements without notice.



# K-FLEX®

## K-FONIK B

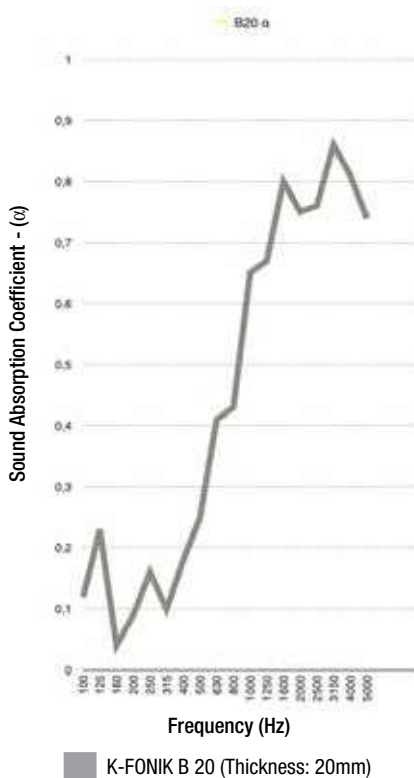
Embossed surface polyurethane foam sheet ideal for acoustic absorption. **K-FONIK B** material is specifically designed for situations where sound absorption is a priority. It is made of open cell flexible polyurethane foam with a density of 25/30 kg/m<sup>3</sup>.



### APPLICATION

**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



	B20
Freq. (Hz)	$\alpha$
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
$\alpha_w$	0,28

### RANGE

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 <sup>3</sup>	
Temperature	-40 °C +70 °C	
Dimensions	1000 x 2000 mm - also available in rolls of different sizes	
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

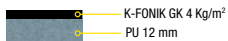
**K-FONIK PU GK** is a sound absorption material with high density elastomeric sheet specifically designed to provide a solution to particular soundproofing problems.

### APPLICATION

**K-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-FONIK PU GK



K-FONIK PU GK



Please see the price list for the full range

# K-FLEX®

## K-FONIK P

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

### APPLICATION

**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-FONIK P 50



K-FONIK P 100



Please see the price list for the full range

### ACOUSTIC PERFORMANCE

P50 -  $\alpha_w = 0,34$   
 P100 -  $\alpha_w = 0,82$



#### K-FLEX® K-FONIK PU GK ▶ TECHNICAL DATA

Property	Value	Test method
Material	Polyurethane foam and high density mass	
Fire rating	Self-extinguishing	
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.



Example of possible application

#### K-FLEX® K-FONIK P ▶ TECHNICAL DATA

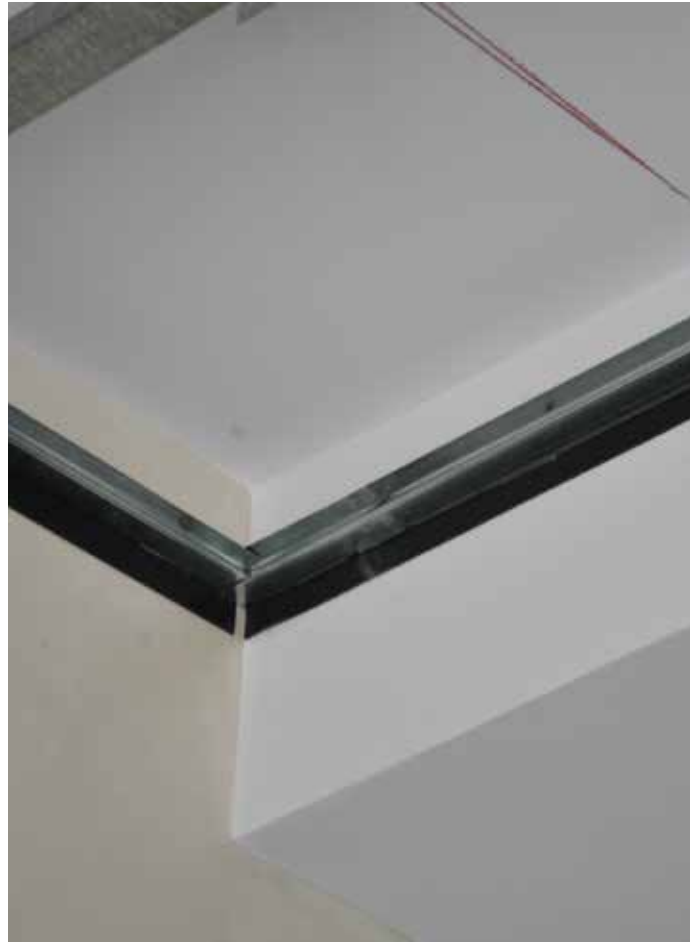
Property	Value	Test method
Material	Polyurethane foam	
Density	25 ÷ 30 kg/m³	
Fire rating	Self-extinguishing	
Temperature	-40 °C +70 °C	
Dimensions	1000 x 1000	
Surface	Pyramid structure	
Thickness	50 - 100 mm	
Base colour	Dark grey	

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



## PROJECTS

Poland





**K-FLEX®**  
**K-FIRE**







### **K-FLEX® K-FIRE**

▶ K-FLEX® is proud to announce K-FLEX® K-FIRE, the new range of product for passive fire protection. In an ever more evolving world is growing awareness and attention to the protection of people in dangerous situations, such as those resulting from a fire. New bigger, more futuristic and innovative buildings are in the design and/ or construction phase and require solutions for passive protection against fire even more efficient. K-FLEX® wants to provide designers and installers a complete range of solutions for fire protection, capable of ensuring the compliant of the most stringent regulatory requirements. K-FLEX® K-FIRE solutions are economical, versatile, easy to install and, above all, reliable. Each solution of K-FLEX® K-FIRE is tested by independent and recognized laboratories and evaluated according to the current standard of fire resistance test. K-FLEX® constantly develops new products and solutions able to satisfy all the requirements of fire stopping and fire protection.

Site



Brochure



# K-FLEX® K-FIRE COLLAR



A range of devices designed to be fitted around plastic pipes where they penetrate fire separating structures. Under fire conditions the intumescent material within the collar expands to crush the softening pipe and fill the resultant opening, thereby maintaining the fire integrity and insulation performance of the floor or wall.

▼ Approvals ▼
CE Marked 0843-CPR-0279 and CE 0843-CPR-0410
ETA 15-0756
ETA-17/1020
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals

K-FLEX® K-FIRE COLLAR ▶ RANGE	
▼ Type ▼	▼ Thicknesses ▼
<b>K-FLEX® K-FIRE COLLAR-P</b> Is K-FLEX®'s premium solution for protecting combustible pipe penetrations up to DN200* (larger diameter will be soon available) and consists of red painted steel shells secured by a hinge and latch system.	55 - 82 - 110 - 125 - 140 - 160 - 200 mm
<b>K-FLEX® K-FIRE COLLAR-S</b> Represents an ideal solution for protecting penetration of small diameter pipes and comprises stainless steel shells that are secured by interlocking fastening system.	32 - 38 - 42 - 46 - 48 - 50 mm
<b>K-FLEX® K-FIRE COLLAR-Z</b> Represents the economical solution for protecting combustible pipe penetration, made of galvanized steel metal shells and interlocking fastening system.	55 - 65 - 70 - 82 - 90 - 110 - 125 - 140 - 160 mm
<b>K-FLEX® K-FIRE COLLAR-E</b> Is an economical solution that restores the fire resistance of flammable pipe passages, equipped with a cover made of mild galvanized steel painted white protected with a special lock with a blockade.	32 - 40 - 55 - 63 - 75 - 82 - 110 - 125 - 140 - 160 - 200 - 250 - 315 mm

Do you have any doubts about which is the **best solution?**

Contact us at [kflex-technical@kflex.com](mailto:kflex-technical@kflex.com)  
 An expert will advise you on the best solution to your problem!



# K-FLEX® K-FIRE PIPE WRAP



K-FLEX® K-FIRE PIPE WRAP is a pipe closure device used to form penetration seals where combustible pipes and insulated metal pipes penetrate walls and floors. K-FLEX® K-FIRE PIPE WRAP is supplied in bags sized according to pipe diameter. The wrap is wrapped around the pipe and pushed into the aperture in the separating element or cast in with K-FLEX® K-FIRE EX MORTAR.

▼ Approvals ▼
CE Marked 0843-CPR-0411
ETA 17-1049
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals

K-FLEX® K-FIRE PIPE WRAP ► RANGE	
▼ Type ▼	▼ Thicknesses ▼
K-FLEX® K-FIRE PIPE WRAP - precutted strip	55 - 82 - 110 - 125 - 160 - 200 - 250 - 315 mm
K-FLEX® K-FIRE PIPE WRAP - roll	25 m × 50 mm or 25 m × 75 mm

# K-FLEX® K-FIRE BOARD



K-FLEX® K-FIRE BOARD anti-icing board is made of mineral wool with a density of 160 kg/m<sup>3</sup>, covered on one or both sides with K-FLEX® K-FIRE COATING acrylic paint. It is used for fire-proof sealing, in walls and ceilings, passages of steel and copper pipes and combined passes with plastic pipes, cables and ventilation ducts.

▼ Approvals ▼
CE Marked 843-CPR-406 and CE 843-CPR-407
ETA 17-1021
ETA-17-1022
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE BOARD ► RANGE		
▼ Type ▼	▼ Thicknesses ▼	
K-FLEX® K-FIRE BOARD - 1200 × 600	50 - 60 mm	1S Smooth
K-FLEX® K-FIRE BOARD - 1200 × 600	60 mm	2S Smooth
K-FLEX® K-FIRE BOARD - 1200 × 600	50 - 60 mm	1S Ribbed
K-FLEX® K-FIRE BOARD - 1200 × 600	50 - 60 mm	2S Ribbed

# K-FLEX® K-FIRE SEALANT A PLUS



K-FLEX® K-FIRE SEALANT A PLUS is a fire resistant water based acoustic acrylic sealant, designed for internal use with fire and smoke resisting gaps and service penetrating capability. K-FIRE SEALANT A PLUS can be used where a low movement fire resistant and/or acoustic joint is required. K-FIRE SEALANT A PLUS provides good adhesion to most common building materials like brick, concrete, plasterboard, wood etc.

▼ Approvals ▼
CE Marked 0843-CPR-0284
ETA 15-0818
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
ETA 15-0795
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE SEALANT A PLUS ▶ RANGE			
▼ Type ▼	▼ Content ▼	▼ Color ▼	
K-FLEX® K-FIRE SEALANT A PLUS - cartridge	310 ml	White	

# K-FLEX® K-FIRE SEALANT A



K-FLEX® K-FIRE SEALANT A is a one part, acrylic emulsion that intumesces and forms a char when exposed to the heat of a fire, preventing the passage of fire and smoke. In normal use, it will maintain the sound reduction index of a structure. It does not emit halogenated by-products under fire conditions, and does not contain any hazardous raw material. It has good, unprimed, adhesion to a wide variety of common building substrates, and it is designed to work in combination with K-FLEX® K-FIRE BATT to prevent the passage of fire and smoke between compartmentations whilst still allowing the installation of services.

▼ Approvals ▼
CE Marked 1121-CPR-JA5095
ETA 15-0777
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
ETA 15-0776
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE SEALANT A ▶ RANGE			
▼ Type ▼	▼ Content ▼	▼ Color ▼	
K-FLEX® K-FIRE SEALANT A - cartridge	310 ml	White or grey	

# K-FLEX® K-FIRE SEALANT S PLUS



A one part, fire resistant, neutral curing, silicone sealant to be used in situations where a flexible fire resistant joint is required. Excellent adhesion to most building substrates, including porous materials, without the use of primers. Good durability.

Approvals
CE Marked 0843-CPR-0285
ETA 15-0819
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
ETA 15-0817
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE SEALANT S PLUS RANGE		
Type	Content	Color
K-FLEX® K-FIRE SEALANT S PLUS - cartridge	310 ml	White or grey

# K-FLEX® K-FIRE ACRYLIC



K-FLEX® K-FIRE ACRYLIC is an one part acrylic sealant designed to prevent the spread of fire and smoke through joints and openings in fire rated walls and floors including openings formed around building service penetrations. K-FLEX® K-FIRE ACRYLIC will also maintain the acoustic design performance in walls and floors. K-FLEX® K-FIRE ACRYLIC cures when it is subjected to atmospheric conditions and retain a certain elasticity for joint movement. Under fire exposure, K-FLEX® K-FIRE ACRYLIC creates a robust fire seal creating a durable intumescent char. Thermal activation takes place at about 180°C when the material will expand (intumescence) and prevent the passage of fire and smoke for periods up to and beyond 4 hours.

Approvals
CE Marked 0843-CPR-0408
ETA 17/1048 and 17/1047
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AgBB and EC1Plus for Low VOC

K-FLEX® K-FIRE ACRYLIC RANGE		
Type	Content	Color
K-FLEX® K-FIRE ACRYLIC - cartridge	310 ml	White
K-FLEX® K-FIRE ACRYLIC - sausage	600 ml	White



# K-FLEX® K-FIRE HP SEALANT



K-FLEX® K-FIRE HP SEALANT is an intumescent pressure sealant which, when exposed to fire, expands protecting penetrations including cables, cable bunches, cable trays, plastic and metallic pipes. K-FLEX® K-FIRE HP SEALANT maintains the integrity and insulation performance of the seal through masonry and plasterboard. The sealant is intended for use in service penetrations through walls and floors where fire integrity and insulation needs to be preserved. Under fire conditions the product swells and exerts pressure to the surrounding substrates leading to closure of the penetration.

▼ Approvals ▼
CE Marked 1121-CPR-JA5097
ETA 15-0778
ETAG 026-2 (2011) according EN 1366-3 Penetration Seals

K-FLEX® K-FIRE HP SEALANT ▶ RANGE			
▼ Type ▼	▼ Content ▼	▼ Color ▼	
K-FLEX® K-FIRE HP SEALANTS - cartridge	310 ml	Grey	

Do you have any doubts about which is the **best K-FIRE solution?**

Contact us at [kflex-technical@kflex.com](mailto:kflex-technical@kflex.com)  
An expert will advise you on the best solution to your problem!

# K-FLEX® K-FIRE EX MORTAR



K-FLEX® K-FIRE EX MORTAR is a gypsum based mortar material, used to reinstate the fire resistance performance of wall and floor constructions where they have been provided with apertures for the penetrations of multiple services. When mixed with water, the compounds form a highly thermally insulating fire sealing compound to prevent the spread of fire and smoke through openings in fire rated walls and floors, including openings formed around building service penetrations. K-FLEX® K-FIRE EX MORTAR will also maintain the acoustic design performance in walls and floors. K-FLEX® K-FIRE EX MORTAR expands approx. 1% by hydraulic action during curing ensuring a very tight seal around the service penetrations and the surrounding opening apertures.

▼ Approvals ▼

CE Marked 0843-CPR-0412  
 ETA 17-1046  
 ETAG 026-2 (2011) according EN 1366-3 Penetration Seals

**K-FLEX® K-FIRE EX MORTAR ▶ RANGE**

▼ Type ▼

▼ Content ▼

K-FLEX® K-FIRE EX MORTAR - bag

20 lt

# K-FLEX® K-FIRE COATING



K-FLEX® K-FIRE COATING is a special developed paint that prevents smoke and fire from entering. Provides up to 120 minutes fire resistance. The product is resistant to weather conditions. The product should be used together with mineral wool density min 80 kg/m<sup>3</sup>. After drying it remains highly flexible so that the structure moves building.

▼ Approvals ▼
CE Marked 843-CPR-0407
ETA 17/1021
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE COATING ▶ RANGE	
▼ Type ▼	▼ Content ▼
K-FLEX® K-FIRE COATING	8 lt. - 10,4 / 11,2 kg

# K-FLEX® K-FIRE FLEXI COAT



K-FLEX® K-FIRE FLEXI COAT is an acrylic based sealant used to form linear gap seals where gaps are present in floor constructions and to create seals where penetrations go through walls. The K-FIRE FLEXI COAT is supplied in liquid form contained within 10 kg or 20 kg pail. K-FIRE FLEXI COAT is trowelled or sprayed into the aperture in or between the separating element/elements to a specified depth utilising mineral wool as a backing material.

▼ Approvals ▼
CE Marked 1121-CPR-JA5117
ETA 17/1016
ETAG 026-3 (2011) according EN 1366-4 Linear Joint and Gap Seals

K-FLEX® K-FIRE FLEXI COAT ▶ RANGE	
▼ Type ▼	▼ Content ▼
K-FLEX® K-FIRE FLEXI COAT	10 -20 kg





**K-FLEX**  
**K-FIRE** 



# **FIRESTOPPING**

# **SOLUTIONS**

# **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

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 $\lambda$ W/(m•K)	0,036 W/mK a 0°C
Permeability $\mu$	7000
Corrosion properties	pH neutral (7)
Resistance to mould, fungi and bacteria	Excellent
Odour	Neutral
Colour	Black
Use	Internal

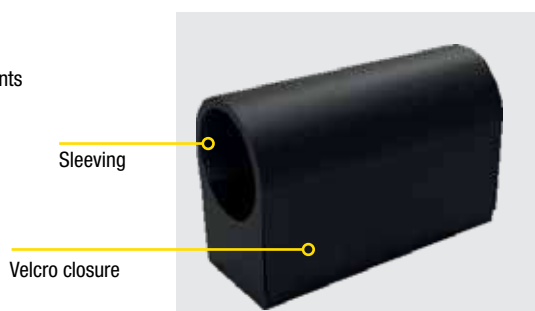
K-FLEX® reserves the right to change data and technical requirements without notice.

## GENERAL INFORMATION

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

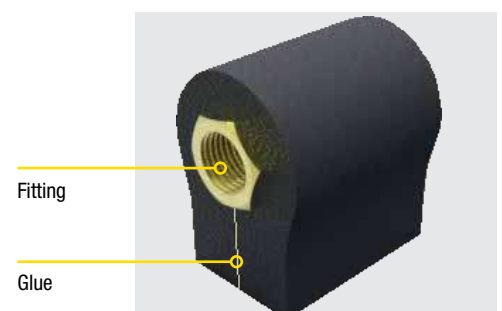
Removable version, with IC CLAD jacketing

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



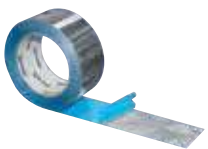
Each piece has been specifically designed in order to perfectly match the equipment to be insulated. The elastomeric closed cell structure offers a very low thermal conductivity combined with excellent resistance to water vapor diffusion.

- ▶ 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 reusable tailor made system for thermal insulation of special parts and complex geometry for industrial applications

**New!**



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 temperatures 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 products 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
- ▶ Basalt wool
- ▶ Foam rubber K-FLEX® ENERGO PLUS
- ▶ 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, B <sub>1</sub> / (M·°C), no more	0,038	0,039	0,040	0,041
Wetness resistance	+	+	-	-
Oil and oil products resistance	+	+	-	-
Average density, kg/m <sup>3</sup>	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
- ▶ Premium class contact tapes
- ▶ Multifilament belts
- ▶ Spring buckles

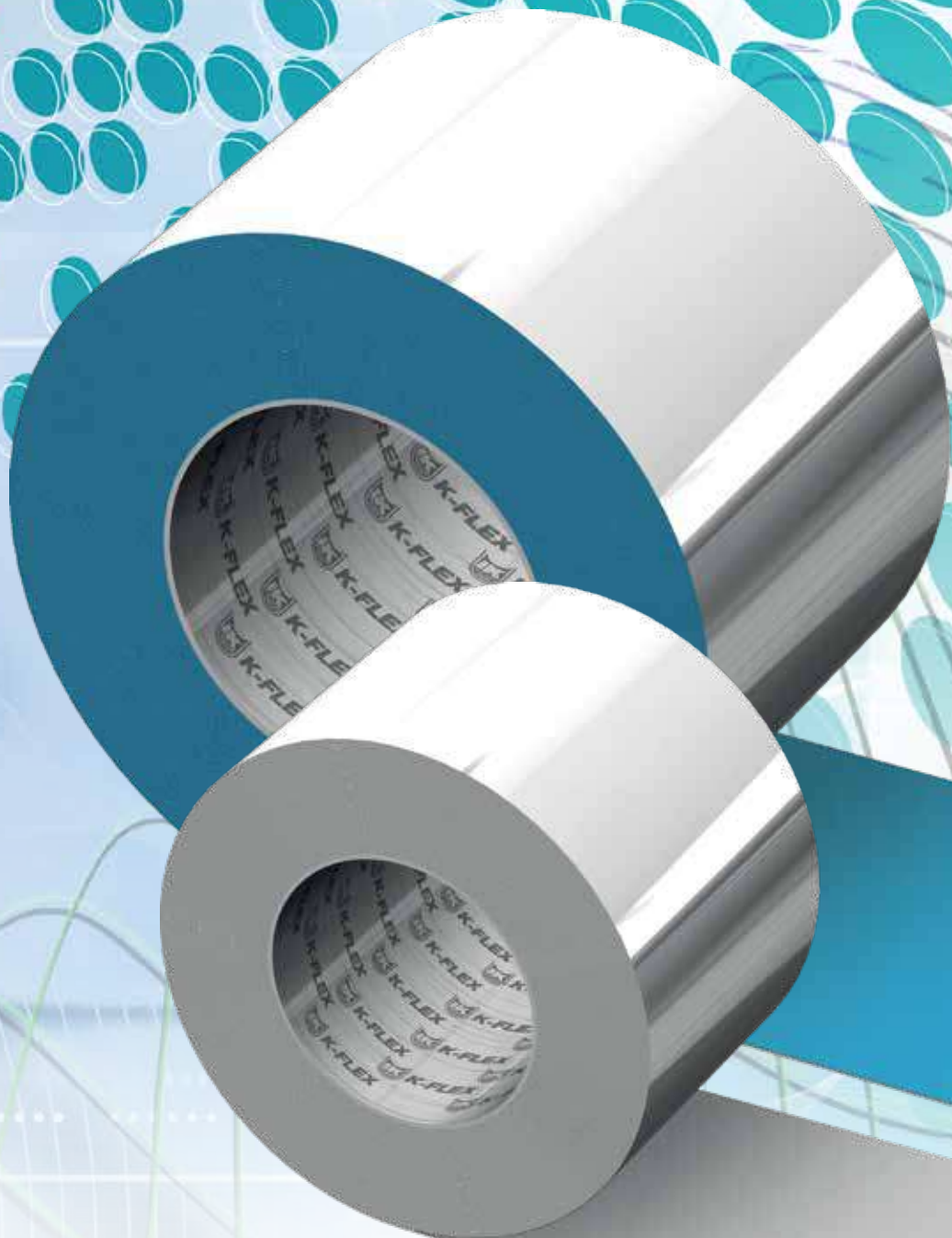
▶ FIXING			
Threads	Belts	Tapes	Bucklers
Temperature of use up to 1000 °C	Polypropylene basis	Polyamide basis	Industrial steel locks
Resistant to mechanical stress	Resistant to ultraviolet	Temperature of use up to +140 °C	
Nonflammable	Resistant to attrition	Perfect resistance to solon water, acid solutions to ISO 105-G04:1989	Breaking load no less than 1100 κF
Tensile strength more than 8500 κH	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<sup>®</sup>** **TAPES**





## K-FLEX® TAPES

- ▶ The difference is in the details

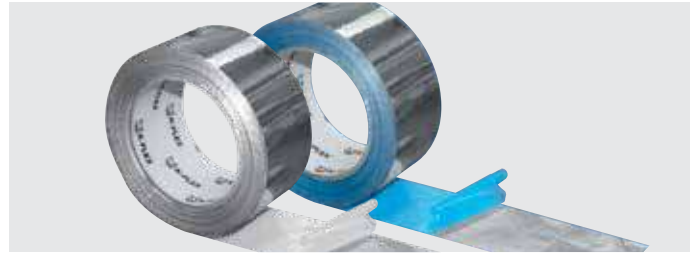
Site



# K-FLEX®

## ALU AA CW TAPE

### Aluminum Foil Tape



High tensile strength 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

Thicknesses: 25 - 30 - 40 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	Test method
Backing thickness	25 Micron	30 Micron	40 Micron	PSTC-133 / ASTM D 3652
Total thickness	60 Micron	70 Micron	80 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	15 N/25mm	15 N/25mm	15 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	40 N/25mm	40 N/25mm	40 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0 %	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service temperature	-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.

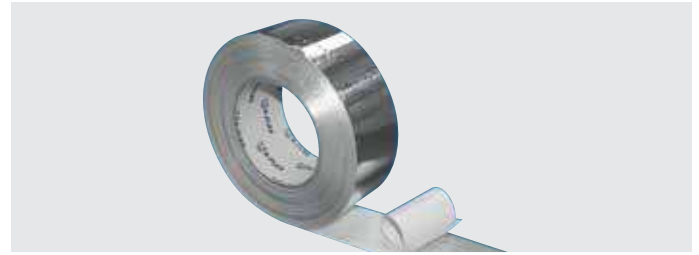
K-FLEX® reserves the right to change data and technical requirements without notice.



# K-FLEX®

## ALU AR CW TAPE

### Foil-Scrim Tape



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

#### MEASUREMENTS

Thicknesses: 43 - 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 107 an excellent vapor barrier.
- ▶ Service Temperature range from -30 ~ +120 °C (-22~ +248 °F).

#### 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 107 CW TAPE	K-FLEX® ALU AR 107 PLUS CW TAPE	Test method
Backing thickness	43 Micron	50 Micron	PSTC-133 / ASTM D 3652
Total thickness	83 Micron	90 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	15 N/25mm	15 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	100 N/25mm	120 N/25mm	PSTC-131 / ASTM D 3759
Elongation to break	3.0%	3.0%	PSTC-131 / ASTM D 3759
Service temperature	-30 ~ +120 °C	-30 ~ +120 °C	

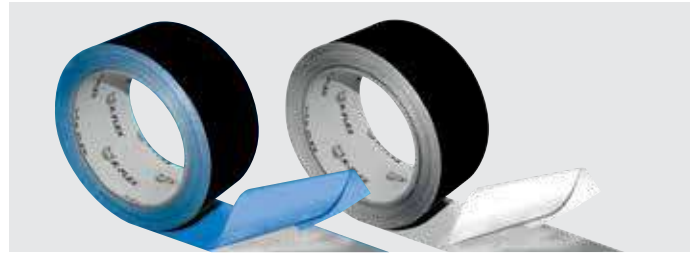
The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications 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 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 ▼
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®

## CLOTH 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 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).

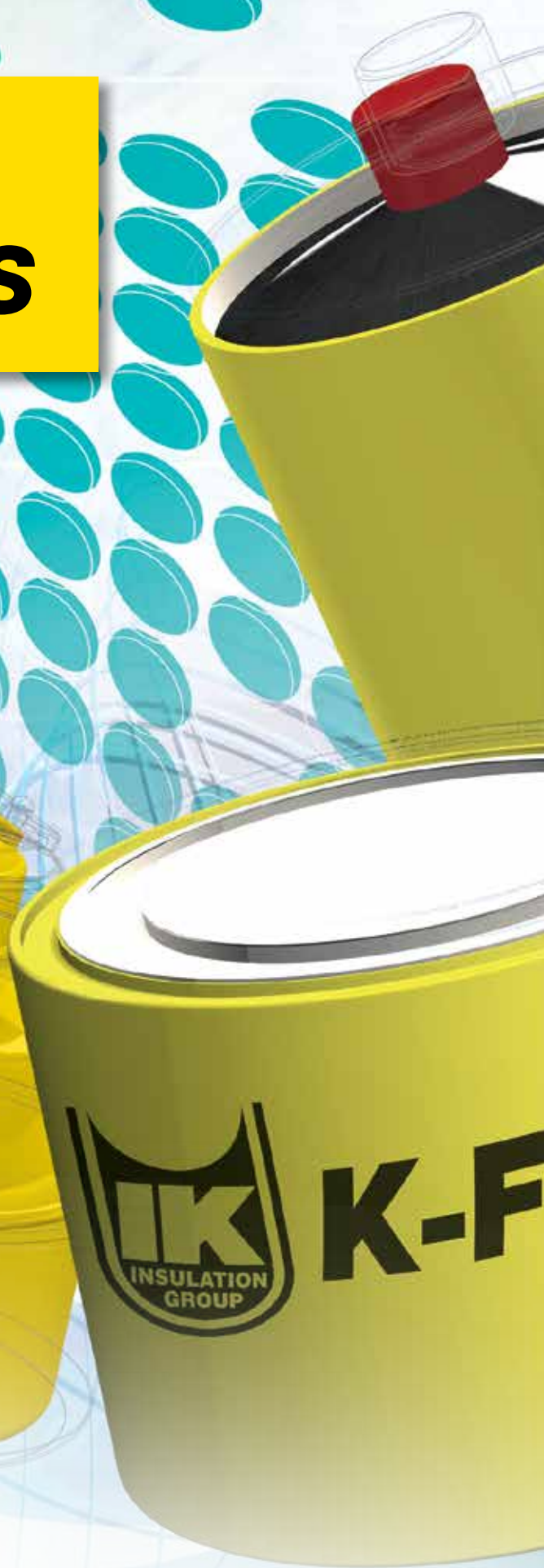
K-FLEX® CLOTH DUCT TAPE ► TECHNICAL DATA			
▼ Property ▼	K-FLEX® ▼ CLOTH DUCT 1604H ▼	K-FLEX® ▼ CLOTH DUCT 1804H ▼	K-FLEX® ▼ CLOTH DUCT 1805H ▼
Mesh	35	35	35
Colour	Grey, Blue, Red	Grey, Black	Grey
Thickness	160 Microns	180 Microns	180 Microns
Adhesion	16 N/25mm	18 N/25mm	18 N/25mm
Tensile	75 N/25mm	80 N/25mm	85 N/25mm
Elongation to break	12 %	12 %	12 %
Service temperature	-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<sup>®</sup>*** ***ACCESSORIES***





### K-FLEX® ACCESSORIES

- ▶ Complete range of solution for the installers

Site



# 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

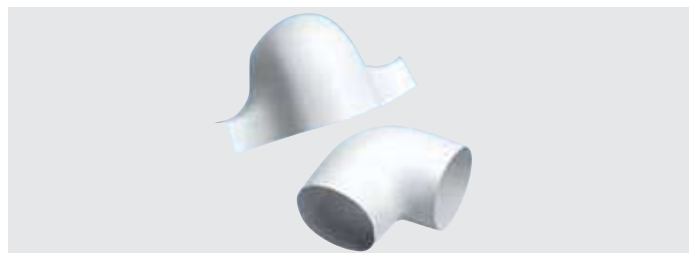
Thicknesses: 0,1 mm

Lengths: 50 - 25 m

Width: 10 cm



# K-FLEX® 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.

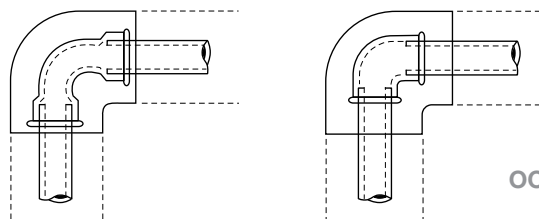
## APPLICATION

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.

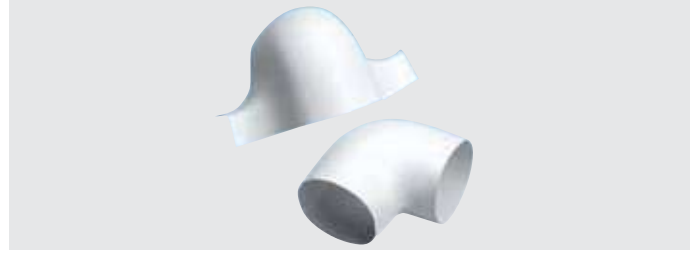
## APPLICATION

- ▶ 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 $\lambda$	0,16 W/(m•K)
Permeability to vapour $\mu$	1,0 gm <sup>2</sup> 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.

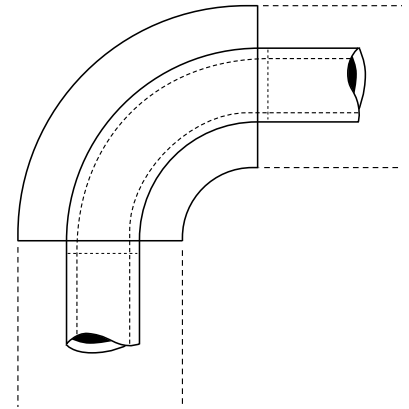
## APPLICATION

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”).

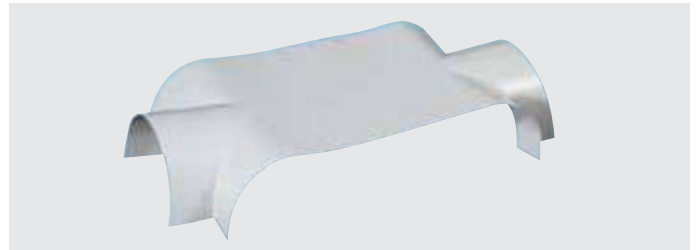
## MEASUREMENTS

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

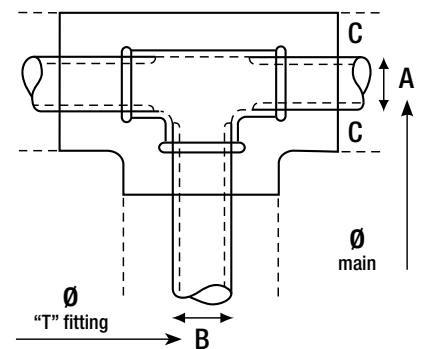
The external diameter of the PVC T section also includes the thickness of the insulation.

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.

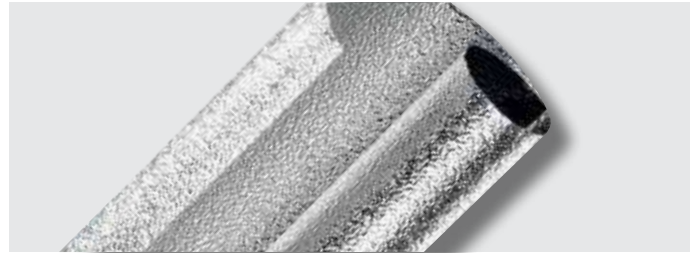
## MEASUREMENTS

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 cylindrical 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, polyurethane 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

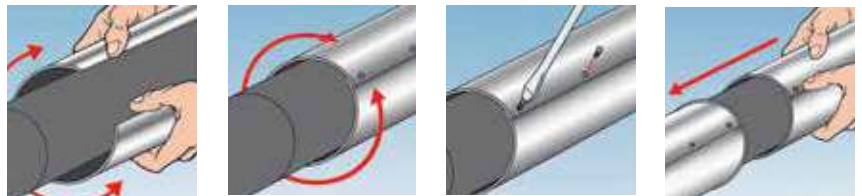
## MT-CU



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® 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 ▼
Maximum service temperature	+85°C										
Minimum service temperature	-40°C										
Permeability	$\mu \geq 7\ 000$										EN 12086
Water absorption	<0.1 %										EN 13472
Leachable chlorides	<500 ppm When tested in line with DIN1988/7, Leachable chlorides <0.05%										EN 13468
Ph	Neutral (7)										EN 13468
Fire rating	Euroclass B- s2, d0										EN 13501
Dimensional tolerances	as for EN14304										
Ecological data	Without CFCs and HCFCs										
Medium temperature	-30°C	-20°C	-10°C	0°C	+10°C	+20°C	+30°C	+40°C	+50°C	+70°C	
Thermal conductivity [W/(m °K)]	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.042	EN12667

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 high temperature applications.

## 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 ▼
Maximum service temperature	+85°C									
Minimum service temperature	-40°C									
Permeability	NPD									EN 12086
Water absorption	<0.1 %									EN 13472
Leachable chlorides	<500 ppm When tested in line with DIN1988/7, Leachable chlorides <0.05%									EN 13468
Ph	Neutral (7)									EN 13468
Fire rating	Euroclass E									EN 13501
Dimensional tolerances	as for EN14304									
Ecological data	Without CFCs and HCFCs									
Medium temperature	-30°C	-20°C	-10°C	0°C	+10°C	+20°C	+30°C	+40°C	+50°C	
Thermal conductivity [W/(m °K)]	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.044	EN12667

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 ▼
Maximum service temperature	+85°C										
Minimum service temperature	-40°C										
Permeability	μ ≥ 3 000										EN 12086
Water absorption	<0.1 %										EN 13472
Leachable chlorides	<500 ppm When tested in line with DIN1988/7, Leachable chlorides <0.05%										EN 13468
Ph	Neutral (7)										EN 13468
Fire rating	Euroclass E										EN 13501
Dimensional tolerances	as for EN14304										
Ecological data	Halogen free, PVC, CFC, HCFC e Formaldeide										
Medium temperature	-30°C	-20°C	-10°C	0°C	+10°C	+20°C	+30°C	+40°C	+50°C	+70°C	
Thermal conductivity [W/(m °K)]	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.044	EN12667

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.

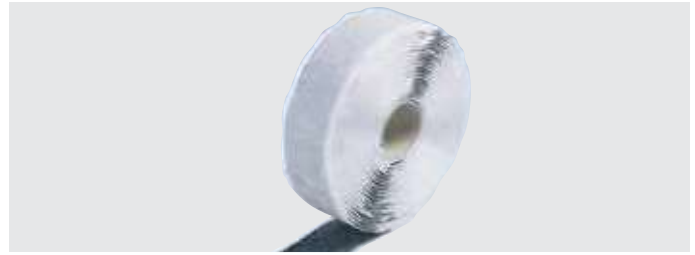
K-FLEX® COLOR TAPE ▶ TECHNICAL DATA		
▼ UV stability ▼	▼ Value ▼	▼ Test method ▼
Weatherometer	> 2000 Hours	DIN 53231
Desert exposure	> 2 Anni	ASTM G 7-97
Total weight approx.	50 g/m <sup>2</sup>	EN 12086
Thickness	45 μ	
Fire rating with K-FLEX® ST	Euroclass C-s3, d0	
Fire rating with K-FLEX® ECO	Euroclass 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® BITUMINOUS CONGLOMERATE TAPE



This product was formulated to provide insulation and to prevent condensation on pipes, fittings, and tubings used in heating, air conditioning, refrigeration, and plumbing.

## MEASUREMENTS

Thickness: 3 mm  
 Lengths: 9 - 15 m  
 Height: 50 mm

## COMPOSITION

This product is a polymer-based material containing butyl rubber, asphalt, and granulated cork (55% by volume). It contains no fibers.

## DETAILS

This product adheres to most clean, dry surfaces and to itself, making it possible to apply more than one layer without adding fasteners or adhesives. It is sufficiently soft and pliable to be molded around most fittings and connections. The material retains its flexibility and adhesion after prolonged exposure to UV and over a service temperature range of -20 °F to 190 °F (-29 °C to 88 °C). It is black in colour and has a grainy, rubber-like consistency.

## STORAGE & SHELF LIFE

Indefinite if stored under normal warehouse conditions.

K-FLEX® BITUMINOUS CONGLOMERATE TAPE ▶ TECHNICAL DATA		
▼ Property ▼	▼ Value ▼	▼ Test method ▼
Composition	Select grades of ground virgin cork and synthetic elastomeric materials.	
Colour	Black	ASTM D1729
Odour	Imparts no odor, can be used without danger of contamination.	
Service Temperature	from -30°C to +100°C	
% Solids	>99% by weight	ASTM C771
Specific Weight	0.99 ± 0.05 g/cm <sup>3</sup>	ASTM D297
Tensile Yield	2,688 bar	ASTM C907
Elongation to break	>2 inches	TP-019

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

# K-FLEX® PVC AT 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

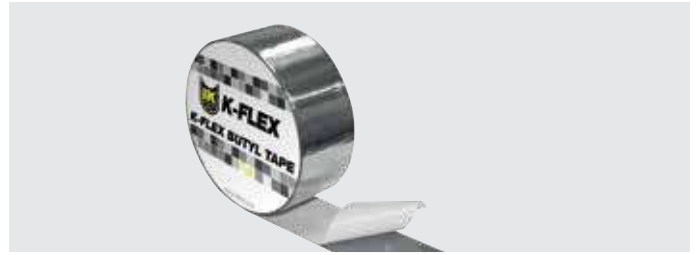
- ▶ Electric insulation below 600V
- ▶ Insulating wrapping of electric wires and cables
- ▶ Marking of electric wires and cables
- ▶ Can be used indoor and outdoor

K-FLEX® PVC AT 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	1,5 N/cm	ASTM-D-1000
to backing	1,5 N/cm	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	<30 ppm	US EPA3052
Mercury, Chromium	<10 ppm	US EPA3060A
Polybrominated biphenyl	<10 ppm	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 UV-rays. 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   Tras. 200 N / 50 mm	EN 12311-1
Elongation to break	Long. 10 %   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: $\mu = 2.720.000$ Total Volatile Organic Compound emissions (TVOC): 30 $\mu\text{g}/\text{m}^3$	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® 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

# 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

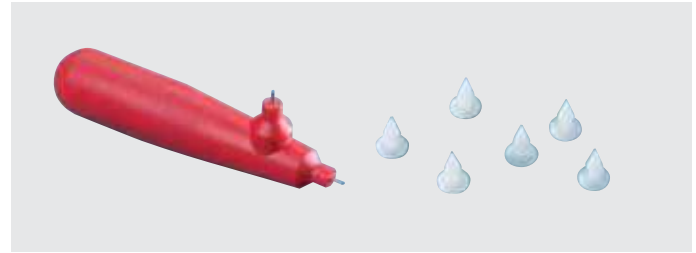


Before covering the surfaces to be insulated, it is advisable to clean them with the special K-FLEX® thinners which, thanks to its composition, is also suitable for use with K 414, K 420 or K 425 adhesives. Cleaning of all surfaces with the special K-FLEX® thinners also improves the performance of the 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® 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

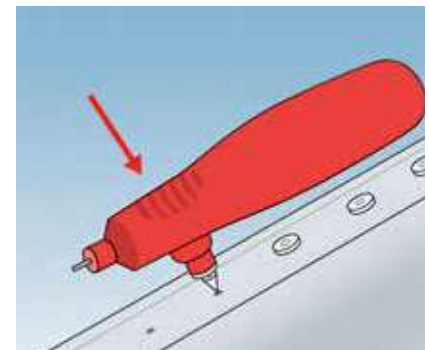
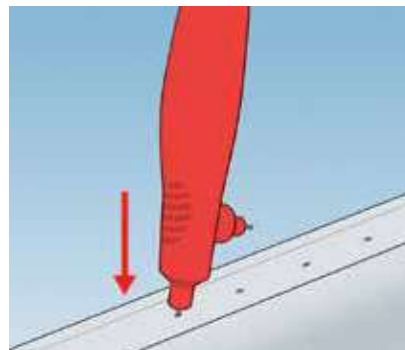
min/max +10 °C/ +80 °C.

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 M<sup>2</sup> 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/m <sup>3</sup>	8	4	8	4	8	4	8	4	8	4	8	4	10	6
30 kg/m <sup>3</sup>	8	4	8	4	8	4	8	4	10	6	10	6	10	6
40 kg/m <sup>3</sup>	8	4	8	4	8	4	10	6	10	6	10	6	12	8
50 kg/m <sup>3</sup>	8	4	8	4	10	6	10	6	10	6	12	8	14	10
80 kg/m <sup>3</sup>	8	4	10	6	10	6	12	8	12	8	14	10	16	12
100 kg/m <sup>3</sup>	10	6	10	6	12	8	14	10	14	10	16	12	20	16

# K-FLEX® ADHESIVE



K-FLEX® K 414, K 420 and K 425 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 414 ADHESIVE in tins of: 0.5 - 0,8 - 2.6 litres

K 420 ADHESIVE in tins of: 0.25 - 1 - 2.6 litres

K 425 ADHESIVE in tins of: 0.85 litre (complete with glue activator)

INDICATED CONSUMPTION OF 1 LITRE OF ADHESIVE		
▼ Tubes ▼	▼ Glued to the heads ▼	▼ Glued lengthways ▼
Thickness 9 mm	every 1350 m	every 150 m
Thickness 13 mm	every 500 m	every 100 m
Thickness 19 mm	every 300 m	every 80 m
Thickness 25 mm	every 220 m	every 60 m
Thickness 32 mm	every 180 m	every 40 m
Thickness 40 mm	every 139 m	every 27 m

Sheet: 1 litres every 7m<sup>2</sup>  
 K-FLEX® does not accept responsibility for different values to those indicated.



# K-FLEX® K-FINISH PAINT









K-FINISH is a water-based paint for coverings on internal and external installations insulated with K-FLEX® materials. With its polymerized acrylic base, it does not pollute and does not give off odours, and is particularly recommended for all indoor uses. Quick drying, it offers excellent protection. Coats of white paint, applied over a layer of K-FINISH will maintain their colour even in dark environments. The colours are resistant to light. It is advisable to paint the surface of externally insulated pipes to protect them against harsh weather conditions and UV rays. For further protection it is advisable use a double layer of K-FINISH paint. Available in 2.5 litre tins, and on request, in various colours.

# K-FLEX® COLOR PAINT

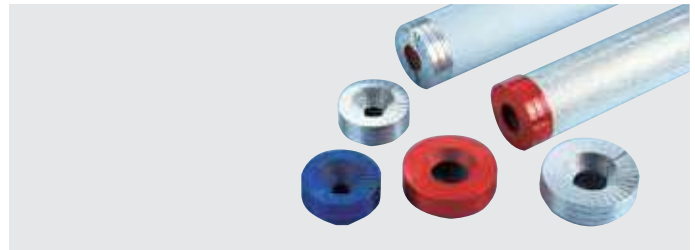


Special paint for retouching the surfaces of COLOR coverings, scratched or damaged during installation. The paint, ready for use, should be applied with a soft brush.  
Available in 0.5 litre tins.

## 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



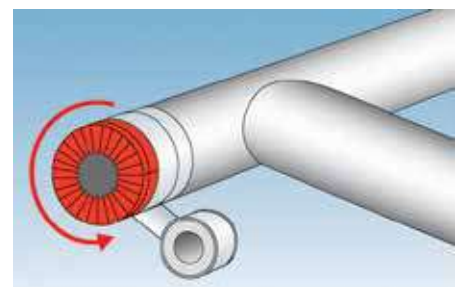
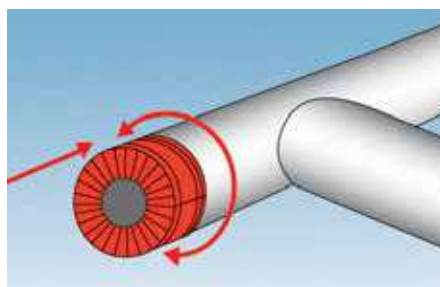
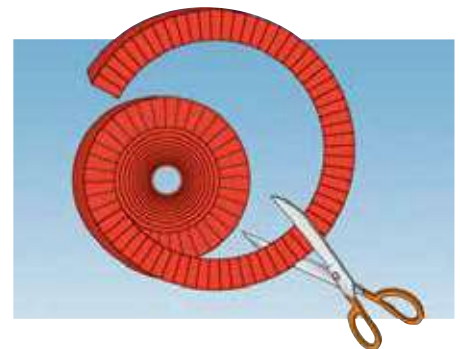
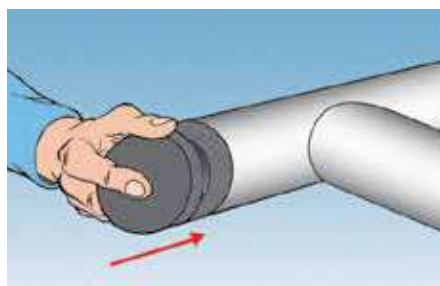
Special endcapping in ribbed aluminium for sealing the ends of insulated pipes. Available in the following colours: SILVER, LIGHT GREY, BLACK, BLUE and RED. Length of rolls - 10 m.  
The different colours make it easier to identify the various pipes of a system.

## 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® TOOLBOX BASIC SET

- ▶ K-FLEX® Knife case
- ▶ 3 Knives
- ▶ Sharpening stone
- ▶ Cutter + Spare blades
- ▶ Cutting template



## K-FLEX® TOOLBOX MEDIUM SET

- ▶ K-FLEX® Bag
- ▶ K-FLEX® Knife case
- ▶ 3 Knives
- ▶ Sharpening stone
- ▶ Cutter + Spare blades
- ▶ Cutting template
- ▶ Mitre box
- ▶ Caliper
- ▶ Compass
- ▶ 2 Brushes
- ▶ Yellow marker
- ▶ Tape measure
- ▶ Metal ruler
- ▶ Nail punch



# K-FLEX® TOOL BOX BASIC SET



## K-FLEX® ACCESSORIES ▶ TOOL BOX - BASIC SET

Description ▼	Dimension ▼	Code ▼
<p><b>KNIVES</b> 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.</p> <p><b>CUTTER + SPARE BLADES</b> 18 mm K-FLEX® Cutter + 1 box containing 10 spare blades.</p> <p><b>SHARPENING STONE</b> Oval shaped tapered sharpening stone.</p> <p><b>CUTTING TEMPLATE</b> K-FLEX® A4 PVC cutting template 1 mm thick., 21x29,7cm.</p>	53x27x7cm	850VRMK0001

# K-FLEX® TOOL BOX MEDIUM SET



## K-FLEX® ACCESSORIES ▶ TOOL BOX - MEDIUM SET

Description ▼	Dimension ▼	Code ▼
<p><b>KNIVES</b> 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.</p> <p><b>CUTTER + SPARE BLADES</b> 18 mm K-FLEX® Cutter + 1 box containing 10 spare blades.</p> <p><b>SHARPENING STONE</b> Oval shaped tapered sharpening stone.</p> <p><b>CUTTING TEMPLATE</b> K-FLEX® A4 PVC cutting template 1 mm thick., 21x29,7cm.</p> <p><b>MITRE BOX</b> Stanley/K-FLEX® ABS Mitrebox, 230mm long x 95mm wide.</p> <p><b>BRUSHES</b> 2 K-FLEX® brushes with yellow plastic handle, 3 cm and 7 cm wide</p> <p><b>METAL RULER and TAPE MEASURE</b> K-FLEX® ABS 3m tape measure with imperial and metric measurements. K-FLEX® 30cm aluminium ruler.</p> <p><b>CALIPER and COMPASS</b> 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</p> <p><b>YELLOW MARKER</b> Marker Edding/K-FLEX®: waterproof yellow marker pen, quick-drying, low-odour, lightfast and durable.</p> <p><b>NAIL PUNCH</b> K-FLEX® nail punch, straight/angular for the accurate fastening of PVC and K-FLEX® AL CLAD foil.</p>	62x30x25cm	850VRMK0002

For stock availability, consult the relevant sales office.

**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. 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"

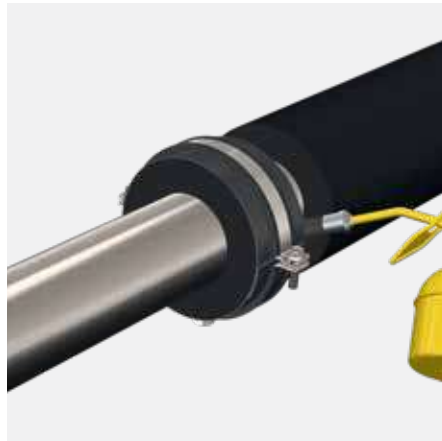
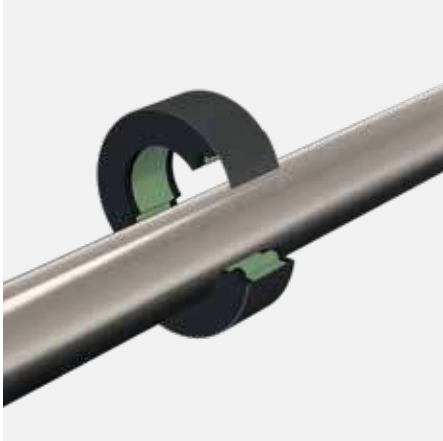
The insulating supports are also available in K-FLEX® ECO, SOLAR, AL CLAD, COLOR, in the same measurements as those indicated for K-FLEX® ST.

K-FLEX® PIPE SUPPORTS ► TECHNICAL DATA	
▼ Property ▼	▼ Value ▼
Central section in PIR	Density 120 kg/m <sup>3</sup>
Compression resistance	1350 kPa
Temperature range	-45 °C +105 °C
Thermal conductivity $\lambda$	0,036 W/(m•K) a 0 °C
Maximum stockage time	1 year
Colour	Black
Permeability to vapour	0,16 W/(m•K)
Diam. and thickness tolerance	1,0 gm <sup>2</sup> 24h Pa

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

## 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.





## CONTACT

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