

PRODUCT CATALOG

# ONEFLEX

Reliable elastomeric rubber foam insulation for HVAC systems

EN - 2023



**oneflex**

 **armacell**<sup>®</sup>  
MAKING A DIFFERENCE AROUND THE WORLD

# ABOUT ARMACELL

Founded in 2010 in Bursa/Turkey, DAS RUBBER, also known as ONEFLEX, was working in the manufacturing of a range of flexible elastomeric foam products for the insulation of mechanical equipment and the first factory was located in Bursa Nilüfer Organized Industrial Zone.

Das Rubber has taken fast steps to become one of the largest flexible elastomeric foam manufacturers in the region in a short period of time. It has proven to be one of the most recognized and trusted brands with its Oneflex product portfolio.

Das Rubber became Armacel Yalıtım A.Ş. in 2015, combining local dynamism and passion with Armacell's proven worldwide experience, know-how and application skills. In the same year, the factory was relocated to Kestel to benefit from the latest technology, where Armacell's production quality system is integrated and closely monitored.

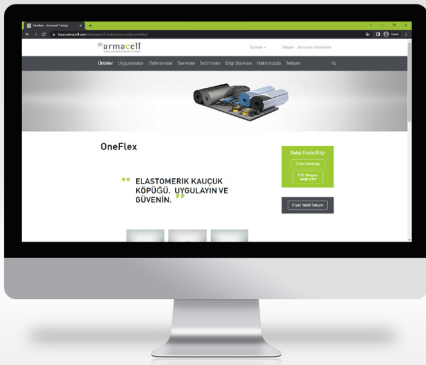


As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams.

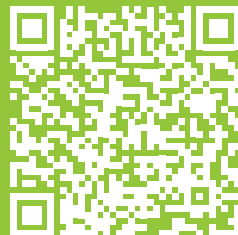


## Did you know that Armacell products are used in many different sectors other than ventilation and construction?

Besides insulation materials for technical equipment, we focus on acoustics, high performance foams, recycled PET products, next generation aerogel technology and passive fire protection systems.



Visit our website for the latest information about us and to request our certificates:



# SERVICES

At Armacell, we want to create a unique customer experience. We understand the challenges of today's insulation industry and support you in the successful delivery of your projects. Our 360° service is with you throughout the entire process, from planning to delivery.

From our Armacell technical experts advising on project planning and safety instructions, to on-site trainings and webinars, to our local dedicated sales and customer service, **Armacell team works in partnership with you to achieve more together.**

## // ARMAWIN™

### TECHNICAL INSULATION CALCULATION TOOL

Good planning is half the battle: Choosing the right insulation material and considering its impact on the longevity and energy efficiency of the mechanical equipment is crucial when it comes to setting up a project. With our new ArmaWin software, you can now plan your technical insulation project even more professionally, quickly, and in more detail. This powerful expert tool enables you to carry out all common technical insulation calculations both for refrigeration/air-conditioning and for sanitary/heating applications. Highlights of our new software: You can now create your own account and retrieve your calculations.

The energy savings of the insulated vs. uninsulated system is given in percentage terms. With our new feature "Economical insulation thickness" specifiers, tendering authorities and insulation contractors can easily determine the higher energy savings potential through an optimal insulation thickness and demonstrate it to their customers.



- // Easy, intuitive navigation
- // Calculating energy and CO<sub>2</sub> savings
- // Payback calculations
- // Comparative calculations
- // Continuous development with new functions

Visit ArmaWin  
Website



[www.armawin.com](http://www.armawin.com)

# // TRAININGS

We see ourselves as a solution provider in insulation technology. This means not only high-quality products but also know-how in the perfect use of our systems.

The insulation market is facing ever-growing requirements: Cryogenic applications, marine applications, improved noise control, new adhesive systems, etc. New products and installation techniques are being developed. If installers are to keep up with these challenges and remain competitive, they need the appropriate expertise. At Armacell, with years of experience, we determine the most suitable training model for our customers. We determine our training programs according to your needs and continue them throughout the year, both on site and online.



**Contact us now to learn more about our trainings.**

# // LOCAL SUPPORT

We support you with our expert teams in order to provide a quick response to your needs. Wherever you are in Turkey, we are just a phone call away so that you can choose the right insulation.

## // İSTANBUL REGION

+ 90 533 732 01 70  
+ 90 533 712 44 66

## // EGE - ANTALYA REGION

+90 530 403 12 70

## // ANKARA - ADANA REGION

+90 531 680 48 80

## // EXPORT

+90 530 303 96 85



## OPTIMIZE ENERGY COSTS.

# ONEFLEX

Oneflex elastomeric rubber foam sheets and pipes provide effective condensation control with their closed cell structure, high water vapor diffusion resistance and low thermal conductivity. Thanks to its reliable physical properties, it helps to provide long-term energy savings in your systems. With its optimum price-performance ratio and comprehensive product range, it provides the most suitable solutions for your needs in mechanical installation applications.

## Oneflex

- Production in 7 different thicknesses and 2 different widths;
- Manufactured in optimum sizes for duct insulation\*
- Low wastage rate in rectangular ducts
- Total cost savings by reducing tape usage in round section ducts
- Thanks to its flexible structure, it helps reduce vibration at duct connection points.
- It is suitable to use Oneflex Formix® contact adhesive in duct applications.



### Oneflex Sheet (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-06-99/E	6	30
ON-09-99/E	9	20
ON-13-99/E	13	14
ON-19-99/E	19	10
ON-25-99/E	25	8
ON-32-99/E	32	6
ON-40-99/E	40	4
ON-50-99/E	50	4

### Oneflex Sheet (1200 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EW	6	36
ON-9-99/EW	9	24
ON-13-99/EW	13	16,80
ON-19-99/EW	19	12
ON-25-99/EW	25	9,60
ON-32-99/EW	32	7,20
ON-40-99/EW	40	4,80
ON-50-99/EW	50	4,80

\*Contact with Customer Services to ask different size of sheets.



# Oneflex FKY

## Self Adhesive Sheets

- Saves time and labour.
- Self-adhesive with mesh structure.
- Ensures full sealing and eliminates the application faults.
- Decreases the scrap ratio by 2-3%.
- Manufactured in optimum sizes for duct insulation\*
- Thanks to its flexible structure, it helps reduce vibration at duct connection points.
- Acrylic based adhesive provides high adhesion strength.



### Oneflex FKY (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EA	6	30
ON-9-99/EA	9	20
ON-13-99/EA	13	14
ON-19-99/EA	19	10
ON-25-99/EA	25	8
ON-32-99/EA	32	6
ON-50-99/EA	50	4

### Oneflex FKY (1200 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EWA	6	36
ON-9-99/EWA	9	24
ON-13-99/EWA	13	16,80
ON-19-99/EWA	19	12
ON-25-99/EWA	25	9,60
ON-32-99/EWA	32	7,20
ON-50-99/EWA	50	4,80

\* Contact with Customer Services to ask different size of sheets.

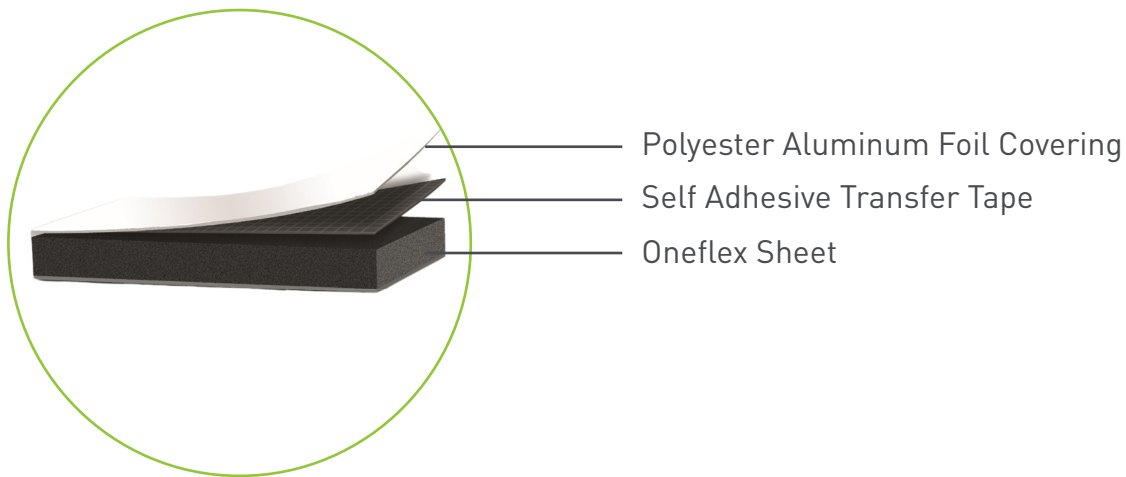


# Oneflex AF

## Aluminum Foil Covered Sheets

Oneflex AF, covered with aluminum foil, provides the most hygienic solution on surfaces that need to be cleaned after installation with its easy-to-clean surface. Sheets designed in the most suitable dimensions for ventilation ducts save time and labor costs in duct insulation applications.

- Aluminum and polyester laminated covering
- Manufactured in optimum sizes for duct insulation\*
- Outdoor resistant packaging
- High water vapor diffusion resistance
- Optimal surface design for an aesthetic impression
- Cleanable surface that supports hygiene



### Oneflex AF (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/E-ALF	6	30
ON-9-99/E-ALF	9	20
ON-13-99/E-ALF	13	14
ON-19-99/E-ALF	19	10
ON-25-99/E-ALF	25	8
ON-32-99/E-ALF	32	6
ON-50-99/E-ALF	50	4

### Oneflex AF (1200 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EW-ALF	6	36
ON-9-99/EW-ALF	9	24
ON-13-99/EW-ALF	13	16,80
ON-19-99/EW-ALF	19	12
ON-25-99/EW-ALF	25	9,60
ON-32-99/EW-ALF	32	7,20
ON-50-99/EW-ALF	50	4,80

\* Contact with Customer Services to ask different size of sheets.

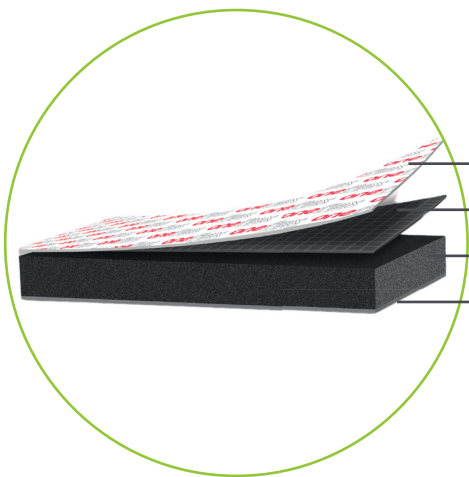


# Oneflex AF FKY

## Self Adhesive Sheet with Aluminum Foil Covered

Oneflex AF FKY provides complete and perfect adhesion to surfaces with its reinforced adhesive. It saves application time and labor with its specially determined dimensions for fast installation of ventilation ducts.

- Ensures full sealing and eliminates the application faults.
- Manufactured in optimum sizes for duct insulation\*
- Thanks to its flexible structure, it helps reduce vibration at duct connection points.
- Resistance to mechanical impacts



- Supporting Surface (Silicone Paper or PPF)
- Self Adhesive Transfer Tape
- Oneflex Sheet
- Aluminum Foil Coating

### Oneflex AF FKY (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EA-ALF	6	30
ON-9-99/EA-ALF	9	20
ON-13-99/EA-ALF	13	14
ON-19-99/EA-ALF	19	10
ON-25-99/EA-ALF	25	8
ON-32-99/EA-ALF	32	6
ON-50-99/EA-ALF	50	4

### Oneflex AF FKY (1200 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EWA-ALF	6	36
ON-9-99/EWA-ALF	9	24
ON-13-99/EWA-ALF	13	16,80
ON-19-99/EWA-ALF	19	12
ON-25-99/EWA-ALF	25	9,60
ON-32-99/EWA-ALF	32	7,20
ON-50-99/EWA-ALF	50	4,80

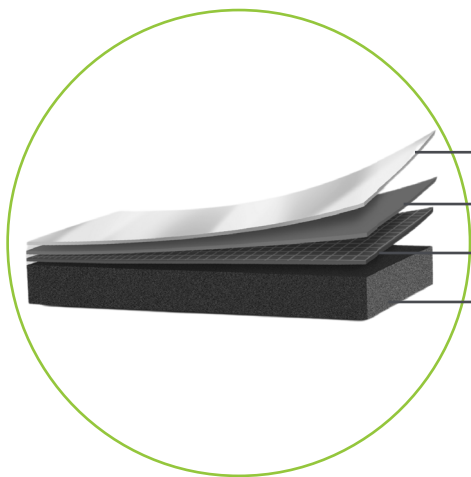
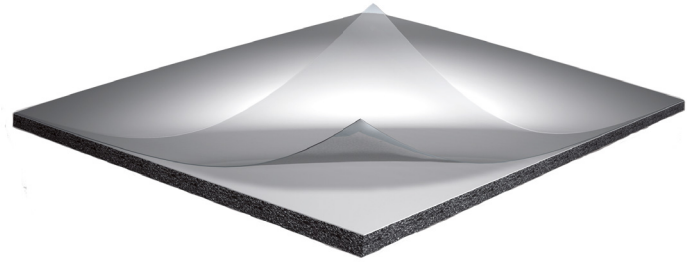
\* Contact with Customer Services to ask different size of sheets.

# Oneflex AL GUARD

## Aluminum Foil and PVC Coated Sheet

Oneflex AL GUARD is an easy-to-apply professional solution that includes Oneflex insulation and cladding in one system. The PVC-backed aluminum cladding is resistant to most weather and environmental conditions, suitable for both indoor and outdoor installations.

- 230 µm thick reinforced surface with polyester and aluminum lamination on PVC layer
- 2 in 1 protected system saves installation time
- Metallic-looking, easy-to-clean aesthetic surface
- Strong and durable surface
- Good chemical resistance
- High resistance against mechanical impacts
- UV resistant



- Polyester Aluminum Foil Coating
- PVC Covering
- Self Adhesive Transfer Tape
- Oneflex Sheet

### Oneflex AL GUARD (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/E-SI	6	30
ON-9-99/E-SI	9	20
ON-13-99/E-SI	13	14
ON-19-99/E-SI	19	10
ON-25-99/E-SI	25	8
ON-32-99/E-SI	32	6
ON-50-99/E-SI	50	4

\* Contact with Customer Services to ask different size of sheets.

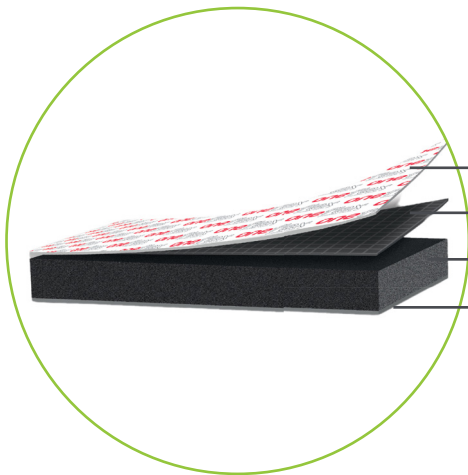
# Oneflex AL GUARD FKY

## Self Adhesive, Aluminum Foil and PVC Coated Sheet

With its self-adhesive feature, Oneflex AL GUARD FKY is easily applied, saving you labor costs. Aluminum foil coating laminated on PVC layer provides full protection against mechanical impacts.



- 230 µm thick reinforced surface with polyester and aluminum lamination on PVC layer
- 2 in 1 protected system saves installation timer
- Metallic-looking, easy-to-clean aesthetic surface
- Strong and durable surface
- Good chemical resistance
- UV resistant
- Quick and easy installation thanks to self-adhesive structure
- High resistance against mechanical impacts



- Supporting Surface (Silicone Paper or PPF)
- Self Adhesive Transfer Tape
- Oneflex Sheet
- PVC + AL Covering

### Oneflex AL GUARD FKY (1000 mm)

Product Code	Insulation Thickness (mm)	m <sup>2</sup> /Roll
ON-6-99/EA-SI	6	30
ON-9-99/EA-SI	9	20
ON-13-99/EA-SI	13	14
ON-19-99/EA-SI	19	10
ON-25-99/EA-SI	25	8
ON-32-99/EA-SI	32	6
ON-50-99/EA-SI	50	4

\* Contact with Customer Services to ask different size of sheets.

# Oneflex Tubes

## Elastomeric Rubber Foam Insulation Tubes



Metric	Copper	Steel	6 mm ( 1/4" )		9 mm (3/8" )		13 mm (1/2" )	
mm	inch	inch	Product Code	m / box	Product Code	m / box	Ürün Kodu	m / box
6	1/4"		ON-06X006	450	ON-09X006	342	ON-13X006	180
8	5/16"		ON-06X008	432	ON-09X008	288	-	180
10	3/8"	1/8"	ON-06X010	360	ON-09X010	252	ON-13X010	162
12	1/2"		ON-06X012	306	ON-09X012	234	ON-13X012	162
15	5/8"		ON-06X015	234	ON-09X015	198	ON-13X015	126
18	3/4"	3/8"	ON-06X018	216	ON-09X018	162	ON-13X018	108
22	7/8"	1/2"	ON-06X022	180	ON-09X022	144	ON-13X022	108
25	1"		-	-	ON-09X025	144	ON-13X025	90
28	1 1/8"	3/4"	ON-06X028	144	ON-09X028	108	ON-13X028	80
35	1 3/8"	1"	ON-06X035	126	ON-09X035	90	ON-13X035	72
42	1 5/8"	1 1/4"	ON-06X042	108	ON-09X042	84	ON-13X042	66
48		1 1/2"	-	-	ON-09X048	84	ON-13X048	60
54	2 1/8"		-	-	ON-09X054	80	ON-13X054	60
60	2 3/8"	2"	-	-	ON-09X060	70	ON-13X060	50
67	2 5/8"		-	-	ON-09X067	60	ON-13X067	40
76	3"	2 1/2"	-	-	ON-09X076	60	ON-13X076	40
80	3 1/8"		-	-	ON-09X080	48	-	40
89	3 1/2"	3"	-	-	ON-09X089	48	ON-13X089	40
102		3 1/2"	-	-	ON-09X102	42	-	32
108	4 1/4"		-	-	ON-09X108	42	ON-13X108	32
114	4 1/2"	4"	-	-	ON-09X114	42	ON-13X114	30

Products marked **green** are produced on demand. Please contact our Customer Service to find out the minimum order quantity.

The products marked in **blue** are in stock in bags.

# Oneflex Tubes

## Elastomeric Rubber Foam Insulation Tubes



Metric	Copper	Steel	19 mm [ 1/4'' ]		25 mm [3/8'' ]		32 mm [1/2'' ]	
mm	inch	inch	Product Code	m / box	Product Code	m / box	Product Code	m / box
6	1/4''		ON-19X006	80	-	-	-	-
8	5/16''		-		-	-	-	-
10	3/8''	1/8''	ON-19X010	72	-	-	-	-
12	1/2''		ON-19X012	72	ON-25X012	50	-	-
15	5/8''		ON-19X015	90	ON-25X015	50	-	-
18	3/4''	3/8''	ON-19X018	68	ON-25X018	44	-	-
22	7/8''	1/2''	ON-19X022	66	ON-25X022	40	ON-32X022	30
25	1''		ON-19X025	54	ON-25X025	40	-	-
28	1 1/8''	3/4''	ON-19X028	48	ON-25X028	38	ON-32X028	24
35	1 3/8''	1''	ON-19X035	44	ON-25X035	32	ON-32X035	20
42	1 5/8''	1 1/4''	ON-19X042	40	ON-25X042	30	ON-32X042	18
48		1 1/2''	ON-19X048	36	ON-25X048	28	ON-32X048	18
54	2 1/8''		ON-19X054	34	ON-25X054	26	ON-32X054	18
60	2 3/8''	2''	ON-19X060	30	ON-25X060	24	ON-32X060	16
67	2 5/8''		ON-19X067	28	ON-25X067	24	ON-32X067	16
76	3''	2 1/2''	ON-19X076	28	ON-25X076	20	ON-32X076	14
80	3 1/8''		ON-19X080	24	-	-	ON-32X080	12
89	3 1/2''	3''	ON-19X089	24	ON-25X089	18	ON-32X089	12
102		3 1/2''	ON-19X102	18	ON-25X102	18	ON-32X102	12
108	4 1/4''		ON-19X108	20	ON-25X108	18	ON-32X108	10
114	4 1/2''	4''	ON-19X114	20	ON-25X114	16	ON-32X114	10

Products marked **green** are produced on demand. Please contact our Customer Service to find out the minimum order quantity.

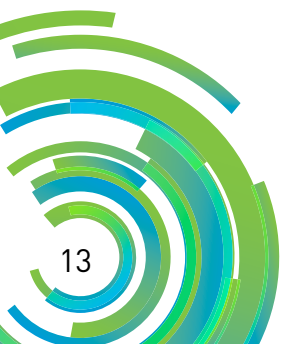
The products marked in **blue** are in stock in bags.

# DIMENSIONAL TOLERANCES TABLE

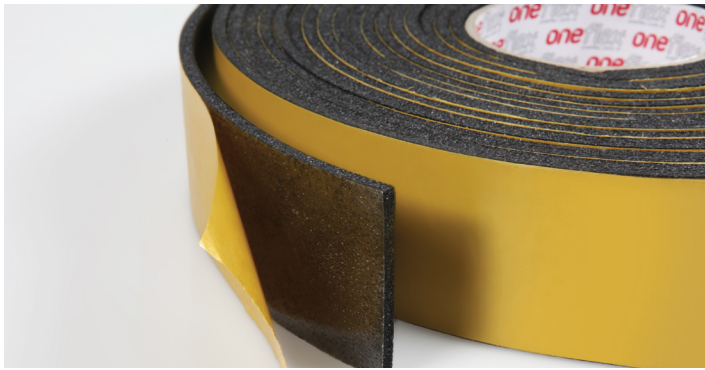
Product Type	Length	Width	Thickness		Squareness	Inside Diameter	
			declared	tolerance		$D_i \leq 100$	$D_i > 100$
Tube	$\pm 1,5 \%$	-	$d_D \leq 8$	$\pm 1$	3,0 mm	$D_{i,D} + 1 \leq D_i \leq D_{i,D} + 4$	$D_{i,D} + 1 \leq D_i \leq D_{i,D} + 6$
			$8 < d_D \leq 18$	$\pm 1,5$			
			$8 < d_D \leq 31$	$\pm 2,5$			
			$d_D > 31$	$\pm 3$			
Sheet	$\pm 1,5 \%$	$\pm 2 \%$	$d_D \leq 6$	$\pm 1$	3,0 mm/mm (length/weight)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$			
			$d_D > 19$	$\pm 2$			
Roll	$+ 5 \%$ - $1,5 \%$	$\pm 2 \%$	$d_D \leq 6$	$\pm 1$	3,0 mm/mm (length/weight)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$			
			$d_D > 19$	$\pm 2$			
Tape	$+ 5 \%$ - $1,5 \%$	$\pm 2 \%$	$d_D = 3$	$- 0,1 +$ $1,5$	-	-	-

## Sheets/Rolls Equivalent Quantity Calculation Table ( m<sup>2</sup>/m )

Steel Pipe Diameter		Pipe Thickness	Insulation Thickness (mm)								
inch	metric		6 mm	9 mm	13 mm	19 mm	25 mm	32 mm	40 mm	50 mm	60 mm
4"	114	6	0.38	0.39	0.40	0.42	0.44	0.46	0.49	0.52	0.52
5"	140	8	0.46	0.47	0.48	0.50	0.52	0.54	0.57	0.60	0.60
6"	169	10	0.84	0.55	0.56	0.58	0.60	0.62	0.64	0.68	0.68
8"	219	12	0.71	0.72	0.73	0.75	0.77	0.79	0.82	0.85	0.85
10"	273	15	0.88	0.89	0.91	0.92	0.94	0.96	0.99	1.02	1.02
12"	323	18	1.04	1.05	1.06	1.08	1.10	1.12	1.15	1.18	1.18
14"	398	22	1.13	1.14	1.16	1.18	1.19	1.22	1.24	1.27	1.27

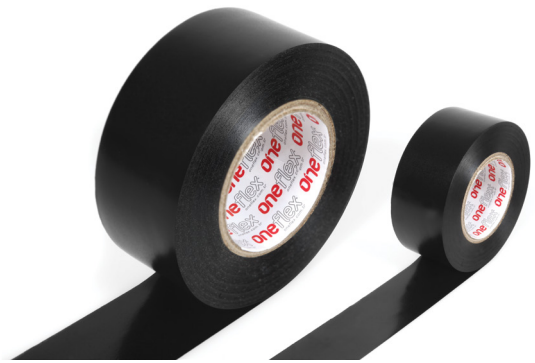
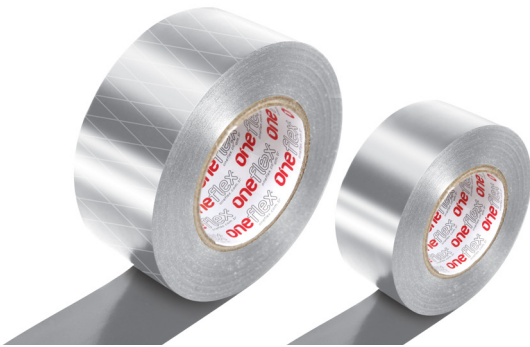


# AUXILIARY MATERIALS



Oneflex Rubber Foam Tape	
Product	Dimensions
5 cm	3mmx50mmx15mt
7.5 cm	3mmx75mmx15mt
10 cm	3mmx100mmx15mt

Formix Contact Adhesive	
Product	
1 kg	
3 kg	
15 kg	



Oneflex Aluminum Foil Tape	
Product	Dimensions
Plain	50mm x 30m
Plain	75mm x 30m
Plain	100mm x 30m
Reinforced	50mm x 30m
Reinforced	75mm x 30m
Reinforced	100mm x 30m

Oneflex PVC Tape	
Product	Dimensions
3 cm	30mmx 25m
5 cm	50mmx 25m

# CUSTOMER & LOGISTIC SERVICES

### OUR CUSTOMER SERVICES

- // Material ordered will be shipped from our facilities within one week after order confirmation
- // Bagged pipe options for the facilitated stacking on the job site
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight
- // Fast and direct shipments



### PACKAGING INFORMATION

Product Information	Height (mm)	Width (mm)	Lenght (mm)	Volume (m <sup>3</sup> )									
<b>Oneflex TUBE</b>													
	Tube Box	360	398	2095	0,30								
<b>Oneflex ROLL BAG</b>													
	<table border="1"> <tr> <td data-bbox="542 1727 798 1809">Oneflex STD</td> <td data-bbox="798 1727 1018 1809"></td> </tr> <tr> <td data-bbox="542 1809 798 1870">Oneflex FKY</td> <td data-bbox="798 1809 1018 1870" style="background-color: yellow;"></td> </tr> <tr> <td data-bbox="542 1870 798 1953">Oneflex AF &amp; ALGUARD</td> <td data-bbox="798 1870 1018 1953" style="background-color: grey;"></td> </tr> <tr> <td data-bbox="542 1953 798 2083">Oneflex AF FKY &amp; ALGUARD FKY</td> <td data-bbox="798 1953 1018 2083" style="background-color: red;"></td> </tr> </table>	Oneflex STD		Oneflex FKY		Oneflex AF & ALGUARD		Oneflex AF FKY & ALGUARD FKY		1000			0,27
Oneflex STD													
Oneflex FKY													
Oneflex AF & ALGUARD													
Oneflex AF FKY & ALGUARD FKY													
		1200			0,29								



## Transport and Storage Information

Information for safety use	<ul style="list-style-type: none"><li>• The information provided in this document was given on 01.01.2023, based on the information we have about our product. Information is provided in good faith.</li><li>• The product should not be used in applications other than its intended purpose.</li><li>• When processed and used appropriately, it has no known harmful effects on health.</li><li>• It is a stable product with no known negative environmental effects. The product partially loses its properties under sunlight. There is no emission of gases that damage the ozone layer or cause global warming.</li><li>• The product is not classified as hazardous to water.</li></ul>
Protection against fire and explosion	<ul style="list-style-type: none"><li>• It should be stored away from flammable and combustible materials.</li><li>• Do not breathe fire gases (in case of fire, toxic gases are released into the environment: carbon dioxide, carbon monoxide and other decomposition products).</li><li>• Suitable breathing apparatus should be used during fire.</li><li>• Avoid exposure to naked flames.</li><li>• Intervene with suitable fire extinguishing equipment.</li></ul>
Storage	<ul style="list-style-type: none"><li>• It can be stored in dry and clean environments under normal conditions (humidity is around 50-70%).</li><li>• It should be stored in a cool and ventilated environment separately from flammable substances such as solvents, thinners, alkali, etc. and not exposed to direct sunlight, otherwise the product and packaging properties will deteriorate.</li><li>• For transportation, the products must be shipped in closed crates or tarpaulin-drawn vehicles with proper shipment.</li><li>• Do not store at temperatures other than the service temperature specified in the catalogue.</li><li>• Protect it from rain, snow, etc., otherwise the product and packaging properties will deteriorate.</li><li>• Product packages should be stacked on a suitable flat surface during storage. The maximum stock height should be at a level that will not damage the products below and the load should be distributed homogeneously.</li></ul>

Please contact our customer service for current package and truck dimensions.



# Technical Document - ONEFLEX

<b>Brief description</b>	Highly-flexible, closed-cell insulation material with strong water vapour diffusion resistance, low thermal conductivity
<b>Material type</b>	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304.
<b>Colour</b>	Black
<b>Applications</b>	Insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning / refrigeration and process equipment to prevent condensation and save energy.
<b>Special Features</b>	Lightweight and flexible. Closed cell construction means no additional vapour barrier is required.

Features	Value/Assessment	Special Remark
<b>Temperature Range</b>	max. service temperature + 120 °C (+ 85 °C if sheet or tape is glued to the object with its whole surface.)	Tested acc. to EN 14707
	min. service temperature <sup>1</sup> -40 °C	Tested acc. to EN 14304
<b>Isi İletkenlik</b> $\vartheta_m \pm 0 \text{ °C}$	Tubes (6-32 mm) $\lambda \leq 0,035 \text{ W/(m} \cdot \text{K)}$ $\lambda = [35 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$	Declared acc. to EN ISO 8497
	Sheets (6 – 50 mm) $\lambda \leq 0,035 \text{ W/(m} \cdot \text{K)}$ $\lambda = [35 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$	Declared acc. to EN ISO 12667
<b>Water vapour diffusion resistance</b>	Tubes	$\mu \geq 7.000$ Tested acc. to EN 12086
	Sheets	$\mu \geq 7.000$ Tested acc. to EN 13469
<b>Reaction to fire</b>	Tubes	B <sub>L</sub> -s3,d0 Classified acc. to EN 13501-1
	Sheets	B-s3,d0 Tested acc. to EN ISO 11925-2
<b>Density</b>	40-60 kg/m <sup>3</sup>	Declared acc. to ISO 845
<b>UV Resistance</b>	Protection against UV-radiation is necessary	
<b>Storage &amp; Shelf Life</b>	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C to 35 °C).
<b>Dimensions &amp; Tolerance</b>	Tubes (mm)	6 ± 1,0 9 ± 1,5 13 ± 1,5 19 ± 2,5 25 ± 2,5 32 ± 3,0 Tested acc. to EN 13467
	Sheets (mm)	3 ± 1,0 6 ± 1,0 9 ± 1,5 13 ± 1,5 19 ± 1,5 25 ± 2,0 32 ± 2,0 50 ± 2,0 Tested acc. to EN 823

# Pipe Diameter Table

Pipe max. Outer-Ø [m m]	Copper Pipes Cu		Steel Pipes Fe			Plastic Pipes
	Outer-Ø [mm]	Outer-Ø [inch]	Inch	Outer-Ø [mm]	Nominal diameter DN	Outer-Ø [mm]
6	6	1/4		6,0		
8	8	3/8		8,0		
10	10	1/2	1/8	10,2	6	
12	12	5/8		12,		
15	15		1/4	13,5	8	14
16						16
18	18	3/4	3/8	17,0	10	
20				20,0		20
22	22	7/8	1/2	21,3	15	
25	25	1		25,0		25
28	28	1 1/8	3/4	26,9	20	
30				30,0		
32				32,0		32
35	35	1 3/8	1	33,7	25	
38				38,0		
40	40			40,0		40
42	42	1 5/8	1 1/4	42,4	32	
45				44,5		
48			1 1/2	48,3	40	
50						50
54	54	2 1/8		54,0		
57				57,0		
60			2	60,3	50	
64	64			63,5		63
67						
70	70			70,0		
73	73	2 7/8		73,0		
76	76	3	2 1/2	76,1	65	75
80	80	3 1/8				
89	89	3 1/2	3	88,9	80	90
90	108	4 1/4				
102				101,6		
108						
110						110
114			4	114,3	100	
125				125,0		125
133	133					
140			5	139,7	125	
154				152,4		
160	159					
165			6	165,1		
168				168,3	150	
180						
204						200
219	219			219,1	200	
254						250
267	267					
273				273,0	250	
306						300
324				323,9	300	
356				355,6	350	
406				406,4	400	
457				457,0	450	
508				508,0	500	
610				610,0	600	

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## ABOUT ARMACEL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems. For more information, please visit: [www.armacell.com](http://www.armacell.com)

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