

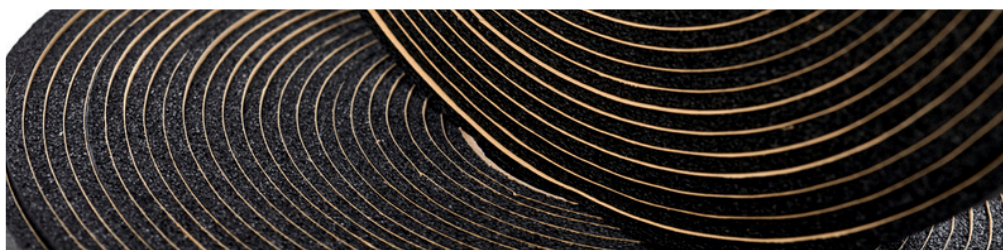
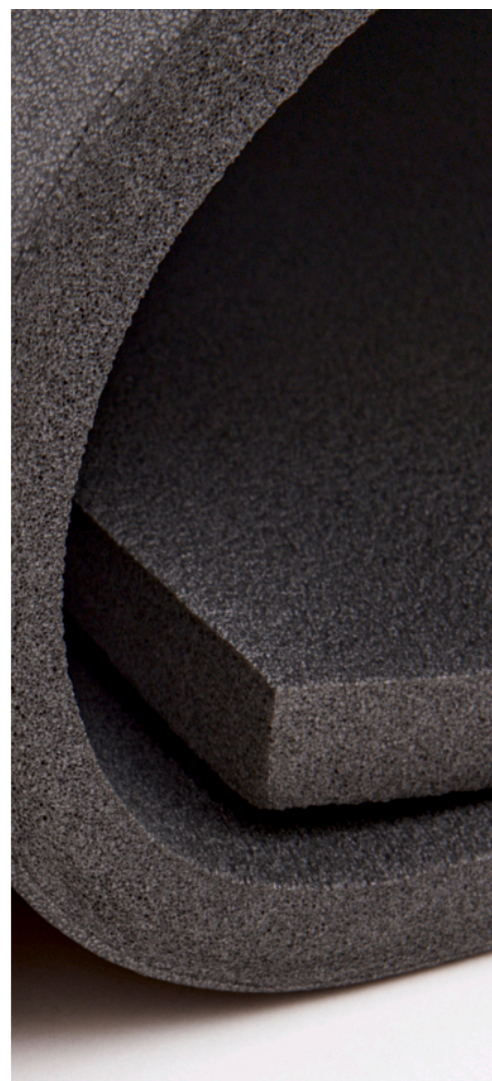


INSTALL IT. TRUST IT.

# AP/ArmaFlex

Insulating mechanical equipment with AP/ArmaFlex is one of the simplest and most efficient measures to save energy, reliably on a long term basis in commercial and residential buildings.

- // Reliable, long-term condensation control
- // Energy efficient
- // Quick, easy and clean installation
- // Professional fire protection
- // Mechanical resistance
- // Low total installed costs
- // Built-in Microban antimicrobial protection reduces mould and bacteria growth



 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>

## TECHNICAL DATA - AP/ARMAFLEX

Brief description	AP/ArmaFlex is a flexible insulation material that reliably protects against water vapour ingress due to its closed-cell structure. No additional water vapour barrier is required.
Material type	Elastomeric foam based on synthetic rubber.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.
Product colour range	Black
Special features	High flexible closed-cell insulation material especially designed for HVAC/R applications.
Applications	Insulation for piping and ducting associated with heating, ventilation, air conditioning and refrigeration (HVAC-R) systems, Variable Refrigerant Volume (VRV) and Variable Refrigerant Flow (VRF) systems, chillers as well as hot and cold water plumbing systems. Structure-borne noise reduction in service-water and waste-water installations.
Installation	Please refer to the ArmaFlex application manual for advice.

Property	Value / Assessment						Standard / Test method
<b>Temperature range</b>							
Service temperature	Range	Min. °C <sup>1</sup>		Max. °C		ASTM C534 - Grade 1	
	Full range	-50		105			
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface					
<b>Thermal conductivity</b>							
Declared thermal conductivity	Øm	35				ASTM C518, ASTM C177	
	$\lambda_d \leq [W/(m \cdot K)]$	0.035					
	Formula	[31 + 0.1 · Øm + 0.0008 · Øm <sup>2</sup> ]/1000					
<b>Fire Performance and Approvals</b>							
Surface burning characteristics	25/50 rated						ASTM E84
<b>Fire performance</b>							
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames.						
<b>Resistance to water</b>							
Water absorption	0.2%						ASTM E96, procedure A
<b>Physical attributes</b>							
Dimensions and tolerances	In accordance with ASTM C302-13 (R17)						ASTM C302
<b>Acoustic performance</b>							
Weighted sound absorption coefficient, $\alpha_w$	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
	25mm	0.170	0.320	0.580	0.600	0.480	0.320
	38mm	0.180	0.360	0.800	0.750	0.700	0.410
<b>Weather and UV resistance</b>							
UV resistance <sup>2</sup>	Protection against UV radiation is necessary (see Technical Bulletin no. 142)						
<b>Health and environment</b>							
Volatile organic compounds (VOC) content	Low volatile organic compounds (VOC), Low Total Aldehyde.						
Antimicrobial behaviour	Built-in Microban antimicrobial product protection.						
Environmental aspects	Zero ODP and GWP.						

Property	Value / Assessment	Standard / Test method
<b>Other technical features</b>		
Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

<sup>1</sup>Can be used till -183 °C if required. Contact Armacell Technical Services for more information.

<sup>2</sup>If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with ArmaFinish Paint, or a covering such as Arma-Chek within 3 days of installation.

Tube – standard. Black. Length: 2.0 m. AP/ArmaFlex tubes

9 mm					13 mm				
Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]	Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (minimum) [inch]	Item	Primary content [metric]
6	7	10	AP-09X006	352 m	6	7	10	AP-13X006	226 m
10	11	14	AP-09X010	280 m	10	11	14	AP-13X010	188 m
20	21	24	AP-09X020	156 m	12	13	16	AP-13X012	162 m
28	29	32	AP-09X028	98 m	15	16	19	AP-13X015	136 m
35	36	39	AP-09X035	84 m	20	21	24	AP-13X020	112 m
42	43	46	AP-09X042	60 m	22	23	26	AP-13X022	104 m
54	55	58	AP-09X054	54 m	28	29	32	AP-13X028	78 m
-	-	-	-	-	35	36	39	AP-13X035	60 m
-	-	-	-	-	43	44	47	AP-13X042	56 m
-	-	-	-	-	48	49	52	AP-13X048	40 m
-	-	-	-	-	54	55	58	AP-13X054	38 m
-	-	-	-	-	60	61	64	AP-13X060	36 m
-	-	-	-	-	67	68	71	AP-13X067	36 m
-	-	-	-	-	76	77	80	AP-13X076	28 m
-	-	-	-	-	80	81	84	AP-13X080	24 m
-	-	-	-	-	89	90	93	AP-13X089	20 m
-	-	-	-	-	108	109	115	AP-13X108	16 m
-	-	-	-	-	114	115	120	AP-13X114	14 m

Other information

Thickness tolerance  
 9 - 13 mm ± 1,5 mm  
 19 - 25 mm ± 2,5 mm  
 32 mm ± 3 mm

Length tolerance ± 1,5 %

Tube – standard. Black. Length: 2.0 m. AP/ArmaFlex tubes

19 mm					25 mm				
Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]	Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]
6	7	10	AP-19X006	112 m	6	7	10	AP-25X006	60 m
10	11	14	AP-19X010	104 m	10	11	14	AP-25X010	54 m
12	13	16	AP-19X012	92 m	12	13	16	AP-25X012	50 m
15	16	19	AP-19X015	78 m	15	16	19	AP-25X015	48 m
20	21	24	AP-19X020	70 m	28	29	32	AP-25X028 HD	32 m
28	29	32	AP-19X028 HD	50 m	35	36	39	AP-25X035 HD	24 m
35	36	39	AP-19X035 HD	40 m	42	43	46	AP-25X042 HD	24 m
42	43	46	AP-19X042 HD	32 m	48	49	52	AP-25X048 HD	22 m
67	68	71	AP-19X067	20 m	60	61	64	AP-25X060 HD	18 m
76	77	80	AP-19X076	18 m	76	77	80	AP-25X076 HD	14 m
80	81	84	AP-19X080	16 m	80	81	84	AP-25X080	12 m
89	90	93	AP-19X089	16 m	89	90	93	AP-25X089 HD	12 m
108	109	114	AP-19X108	16 m	108	109	114	AP-25X108	12 m

**Tube – standard. Black. Length: 2.0 m. AP/ArmaFlex tubes**

19 mm					25 mm				
Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]	Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]
114	115	120	AP-19X114	10 m	114	115	120	AP-25X114 HD	8 m

**Other information**

Thickness tolerance 9 - 13 mm ± 1,5 mm  
19 - 25 mm ± 2,5 mm  
32 mm ± 3 mm

Length tolerance ± 1,5 %

**Tube – standard. Black. Length: 2.0 m. AP/ArmaFlex tubes**

32 mm				
Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	Primary content [metric]
10	11	14	AP-32X010	42 m
10	11	14	AP-32X010	36 m
12	13	16	AP-32X012	36 m
15	16	19	AP-32X015	34 m
22	23	26	AP-32X022	28 m
28	29	32	AP-32X028	24 m
35	36	39	AP-32X035	20 m
35	36	39	AP-32X035 HD	20 m
42	43	46	AP-32X042	18 m
42	43	46	AP-32X042 HD	18 m
48	49	52	AP-32X048	16 m
48	49	52	AP-32X048 HD	16 m
54	55	58	AP-32X054	12 m
60	61	64	AP-32X060 HD	12 m
60	61	64	AP-32X060	12 m
67	68	71	AP-32X067	12 m
76	77	80	AP-32X076 HD	10 m

**Other information**

Thickness tolerance 9 - 13 mm ± 1,5 mm  
19 - 25 mm ± 2,5 mm  
32 mm ± 3 mm

Length tolerance ± 1,5 %

**Roll - standard. Black**

Item	Thickness [mm]	Width (m)	Length [mm]	EAN	Primary content [metric]
APS-09-99/E	9	1	23.5	7612207328202	23.5 m <sup>2</sup>
APS-13-99/E	13	1	17	7612207328219	17 m <sup>2</sup>
APS-25-99/E	25	1.15	9		10.35 m <sup>2</sup>
APS-32-99/E	32	1.15	7		8.05 m <sup>2</sup>
APS-38-99/E	38	1	6	7612207368598	6 m <sup>2</sup>
APS-50-99/E	50	1	4		4 m <sup>2</sup>

**Other information**

**Roll - standard. Black**

Item	Thickness [mm]	Width (m)	Length [mm]	EAN	Primary content [metric]
Thickness tolerance		3 - 6 mm $\pm$ 1.0 mm 9 - 19 mm $\pm$ 1.5 mm > 19 mm $\pm$ 2.0 mm			
Length tolerance		+ 5% - 1,5 %			
Width tolerance		$\pm$ 2 %			

**Roll - standard self-adhesive. Black**

Item	Thickness [mm]	Width (m)	Length [m]	Primary content [metric]
APS-06-99/EA	6	1	34	34 m <sup>2</sup>
APS-09-99/EA	9	1	23.5	23.5 m <sup>2</sup>
APS-13-99/EA	13	1	17	17 m <sup>2</sup>
APS-19-99/EA	19	1	12	12 m <sup>2</sup>
APS-25-99/EA	25	1	9	9 m <sup>2</sup>
APS-32-99/EA	32	1	7	7 m <sup>2</sup>
APS-38-99/EA	38	1	6	6 m <sup>2</sup>
APS-50-99/EA	50	1	4	4 m <sup>2</sup>

**Other information**

Thickness tolerance	3 - 6 mm $\pm$ 1.0 mm 9 - 19 mm $\pm$ 1.5 mm > 19 mm $\pm$ 2.0 mm
Length tolerance	+ 5% - 1,5 %
Width tolerance	$\pm$ 2 %



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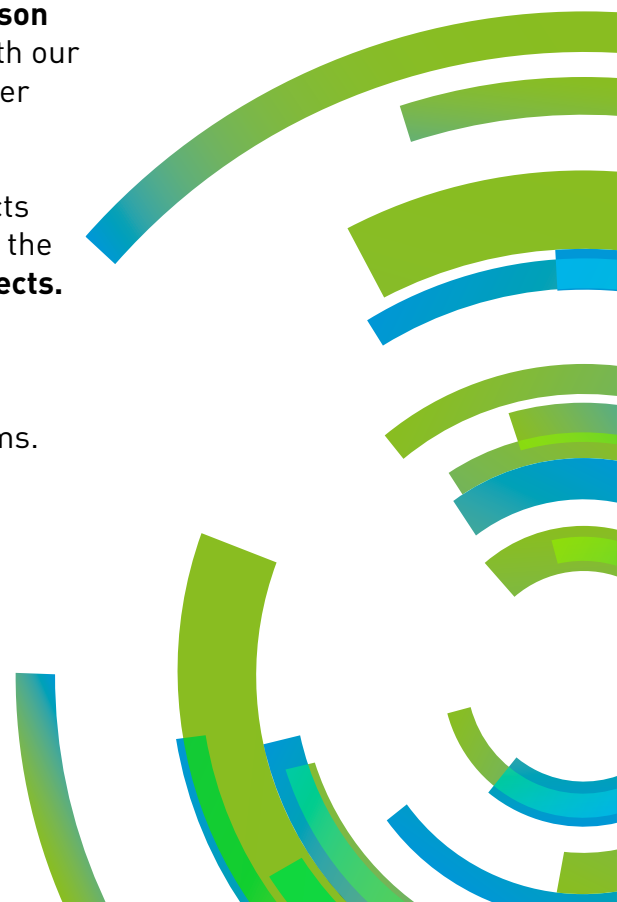
To offer our customers the best service, we hold stocks of our most popular products. **Lead times and form of delivery may vary per product and per country, and may be affected during peak season and holidays.** We aim to create open lines of communication with our customers, so please contact Customer Services who can answer questions about our service commitment to you.

We are pleased to offer you estimated lead times for our products in Poland. This information is displayed as “availability class” in the range tables of our price lists. **Use this as a guide for your projects.**

- A // Up to 3 working days\*
- B // 4 to 7 working days
- C // 7 - 14 working days
- D // Contact Armacell for details for these non-standard items.

Note:

- From the date shown on the order confirmation.
- This is a guide and not binding



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## ABOUT ARMACELL

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As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3200 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 high-tech and lightweight applications and next generation aerogel blanket technology.



For more information, please visit:  
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