

Armaflex® ACE

THE ECONOMICAL FLEXIBLE
INSULATION



- Flexible and easy to install
- Reduction of thermal losses
- Optimal range for application on most common installations

Technical Data - Armaflex ACE

Brief description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity.
Material type	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	black
Material Special 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.
Applications	Insulation / protection of pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning / refrigeration and process equipment as well as heating and plumbing lines to prevent condensation and save energy.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Property	Value/Assessment	Test ¹	Special Remark
Temperature Range			
Temperature Range	max. service temperature	+ 110 °C (+ 85 °C if sheet or tape is glued to the object with its whole surface)	EU 5704 Tested acc. to EN 14706, EN 14707 and EN 14304
	min. service temperature ¹	- 50 °C	
Thermal Conductivity			
Thermal Conductivity	ϑ_m +/-0 °C	.	$\lambda =$
	tubes 6-19 mm	$\lambda \leq 0,036$	W/(m · K) [36 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000
	tubes 25 mm	$\lambda \leq 0,038$	W/(m · K) [38 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000
	sheets 6-25 mm, tape	$\lambda \leq 0,036$	W/(m · K) [36 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000
sheets 32-50 mm	$\lambda \leq 0,038$	W/(m · K) [38 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000	EU 5704 Declared acc. to EN ISO 13787 Tested acc. to EN 12667 and EN ISO 8497
Water vapour diffusion resistance			
Water vapour diffusion resistance	μ	\geq	7.000 EU 5704 Tested acc. to EN 12086 and EN 13469
Fire performance			
Reaction to fire	tubes	D _L -s3,d0	EU 5704 Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
	sheets	D-s3,d0	
	tape	B-s3,d0	
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames		
Other technical features			
Dimensions and tolerances	In accordance with EN 14304, table 1		EU 5704 Tested acc. to EN 822, EN 823, EN 13467
UV resistance ²	Protection against UV-radiation is necessary.		
Storage & Shelf life	Self-adhesive tapes, self-adhesive sheets: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

2. If Armaflex is applied under UV-radiation the material must be protected within 3 days with a covering.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaflex installation manual. Please consult our sales representatives before insulating stainless steels. For some refrigerants the discharge temperature may exceed +110 °C, please consult our sales representatives for further information.

Armaflex ACE tubes



Length 2,0 m, Color black

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
18	ACE-09X018	166	-	-
22	ACE-09X022	136	ACE-13X022	92
28	ACE-09X028	104	ACE-13X028	82
35	ACE-09X035	76	ACE-13X035	60
42	ACE-09X042	62	ACE-13X042	48
48	-	-	ACE-13X048	42
54	-	-	ACE-13X054	38
60	-	-	ACE-13X060	32
64	-	-	ACE-13X064	30
76	-	-	ACE-13X076	28
89	-	-	ACE-13X089	20
114	-	-	ACE-13X114	20

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness			
	Code	m/carton		
22	ACE-19X022	56	-	-
28	ACE-19X028	48	-	-
35	ACE-19X035	38	-	-
42	ACE-19X042	32	-	-
48	ACE-19X048	28	-	-
54	ACE-19X054	24	-	-
60	ACE-19X060	24	-	-
64	ACE-19X064	20	-	-
76	ACE-19X076	16	-	-
89	ACE-19X089	16	-	-
114	ACE-19X114	14	-	-

Length tolerance for tubes

±1,5 %

Thickness tolerance

≤ 8 mm: ±1,0 mm
 9 - 18 mm: ±1,5 mm
 19 - 31 mm: ±2,5 mm
 > 31 mm: ±3,0 mm

Armaflex ACE sheets endless



Width 1,0 m, Color black

Code	Insulation thickness [mm]	Roll length [m]	m ² /carton
ACE-06-99/E	6,0	15	15
ACE-09-99/E	9,0	10	10
ACE-13-99/E	13,0	8	8
ACE-19-99/E	19,0	6	6
ACE-25-99/E	25,0	4	4
ACE-32-99/E	32,0	3	3
ACE-40-99/E	40,0	6	6
ACE-50-99/E	50,0	4	4

Length tolerance for sheets

±1,5 %

Thickness tolerance for sheets

≤ 6 mm: ±1,0 mm
 7 - 19 mm: ±1,5 mm
 >19 mm: ±2,0 mm

Armaflex ACE sheets endless self-adhesive



Width 1,0 m, Color black

Code	Insulation thickness [mm]	Roll length [m]	m ² /carton
ACE-06-99/EA	6,0	15	15
ACE-09-99/EA	9,0	10	10
ACE-13-99/EA	13,0	8	8
ACE-19-99/EA	19,0	6	6
ACE-25-99/EA	25,0	4	4
ACE-32-99/EA	32,0	3	3
ACE-40-99/EA	40,0	6	6
ACE-50-99/EA	50,0	4	4

Length tolerance for sheets	±1,5 %
Thickness tolerance for sheets	≤ 6 mm: ±1,0 mm 7 - 19 mm: ±1,5 mm >19 mm: ±2,0 mm

Armaflex ACE tapes self-adhesive



Length 15,0 m, Width 50,0 mm, Thickness 3,0 mm, Color black

Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
ACE-TAPE/50	50,0	15	3	12