

Armaflex[®] ACE

THE ECONOMICAL FLEXIBLE
INSULATION



- Flexible and easy to install
- Reduction of thermal losses
- Optimal range for application on most common installations
- Euroclass D/D_L-s3,d0 for entire range

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	Certificate of Constancy of Performance, Güteschutzgemeinschaft Hartschaum e.V. , Celle

Property	Value/Assessment	Test ^{*1}	Super-vision ^{*2}	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) min. service temperature ¹ - 50 °C	EU 5581 EU 5654	o/●	Tested acc. to EN 14706, EN 14707 and EN 14304
Thermal Conductivity				
Thermal Conductivity	ϑ_m +/-0 °C $\lambda \leq 0,036$ W/(m · K) [36 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000 $\lambda \leq 0,038$ W/(m · K) [38 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000 $\lambda \leq 0,036$ W/(m · K) [36 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000 $\lambda \leq 0,038$ W/(m · K) [38 + 0,1 · ϑ_m + 0,0008 · ϑ_m^2]/1000	EU 5581 EU 5654	o/●	Declared acc. to EN ISO 13787 Tested acc. to EN 12667 and EN ISO 8497
Water vapour diffusion resistance				
Water vapour diffusion resistance	$\mu \geq 7.000$	EU 5581	o/●	Tested acc. to EN 12086 and EN 13469
Fire performance				
Reaction to fire ²	tubes D _L -s3,d0 sheets D-s3,d0 tape B-s3,d0	EU 5581 EU 5654	o/●	Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
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 5581 EU 5654	o/●	Tested acc. to EN 822, EN 823, EN 13467
UV resistance	Protection against UV-radiation is necessary. See disclaimer.			
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. The reaction to fire classification is valid on metal surfaces.

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

*2 ●: Official supervision by independent institutes and /or test authorities
o: Own in-factory quality monitoring

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 Customer Service Center before insulating stainless steels. Not suitable for outside use. Armaflex should be protected within 3 days, eg. with Armafinish Paint or Arma-Chek covering. For some refrigerants the discharge temperature may exceed +110 °C, please consult our Customer Service Center for further information.

Armaflex ACE tubes



Length 2,0 m, Color black

Pipe max. Outside-Ø [mm]	6,0 mm insulation thickness			9,0 mm insulation thickness		
	Code	m/carton	€/m	Code	m/carton	€/m
6	ACE-06X006 ●	568	xxx	ACE-09X006 ●	362	xxx
10	ACE-06X010 ●	384	xxx	ACE-09X010 ●	266	xxx
12	ACE-06X012 ●	336	xxx	ACE-09X012 ●	234	xxx
15	ACE-06X015 ●	266	xxx	ACE-09X015 ●	192	xxx
18	ACE-06X018 ●	228	xxx	ACE-09X018	166	xxx
22	ACE-06X022 ●	180	xxx	ACE-09X022	136	xxx
28	ACE-06X028 ●	128	xxx	ACE-09X028	104	xxx
35	ACE-06X035 ●	110	xxx	ACE-09X035	76	xxx
42	-	-	-	ACE-09X042	62	xxx
48	-	-	-	ACE-09X048 ●	54	xxx
54	-	-	-	ACE-09X054 ●	52	xxx
60	-	-	-	ACE-09X060 ●	40	xxx
64	-	-	-	ACE-09X064 ●	38	xxx
76	-	-	-	ACE-09X076 ●	40	xxx
89	-	-	-	ACE-09X089 ●	28	xxx
108	-	-	-	ACE-09X108 ●	26	xxx
114	-	-	-	ACE-09X114	24	xxx

Pipe max. Outside-Ø [mm]	13,0 mm insulation thickness			19,0 mm insulation thickness		
	Code	m/carton	€/m	Code	m/carton	€/m
10	ACE-13X010 ●	172	xxx	-	-	-
12	ACE-13X012 ●	162	xxx	-	-	-
15	ACE-13X015 ●	136	xxx	ACE-19X015 ●	72	xxx
18	ACE-13X018	118	xxx	ACE-19X018 ●	60	xxx
22	ACE-13X022	92	xxx	ACE-19X022	56	xxx
28	ACE-13X028	82	xxx	ACE-19X028	48	xxx
35	ACE-13X035	60	xxx	ACE-19X035	38	xxx
42	ACE-13X042	48	xxx	ACE-19X042	32	xxx
48	ACE-13X048	42	xxx	ACE-19X048	28	xxx
54	ACE-13X054	38	xxx	ACE-19X054	24	xxx
60	ACE-13X060	32	xxx	ACE-19X060	24	xxx
64	ACE-13X064	30	xxx	ACE-19X064	20	xxx
76	ACE-13X076	28	xxx	ACE-19X076	16	xxx
89	ACE-13X089	20	xxx	ACE-19X089	16	xxx
108	ACE-13X108 ●	20	xxx	ACE-19X108 ●	16	xxx
114	ACE-13X114	20	xxx	ACE-19X114	14	xxx
140	ACE-13X133 ●	16	xxx	ACE-19X133 ●	10	xxx
140	-	-	-	ACE-19X140 ●	10	xxx
159	ACE-13X160 ●	12	xxx	ACE-19X160 ●	10	xxx

Pipe max. Outside-Ø [mm]	25,0 mm insulation thickness					
	Code	m/carton	€/m			
22	ACE-25X022 ●	36	xxx	-	-	-
28	ACE-25X028 ●	32	xxx	-	-	-
35	ACE-25X035 ●	24	xxx	-	-	-
42	ACE-25X042 ●	24	xxx	-	-	-
48	ACE-25X048 ●	20	xxx	-	-	-
54	ACE-25X054 ●	18	xxx	-	-	-
60	ACE-25X060 ●	18	xxx	-	-	-
64	ACE-25X064 ●	16	xxx	-	-	-
76	ACE-25X076 ●	16	xxx	-	-	-
89	ACE-25X089 ●	12	xxx	-	-	-
108	ACE-25X108 ●	8	xxx	-	-	-
114	ACE-25X114 ●	8	xxx	-	-	-

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

● Item not in stock. Delivery on request. [MTO]

Armaflex ACE tubes [additional table to display with itemgroups of local regulations]



Length 2,0 m, Color black, Acc. to law 10/91

Pipe max. Outside-Ø [mm]	[IT] Category A [IT] Insulation thickness 100%			[IT] Category B [IT] Insulation thickness 50%		
	Code	m/carton	€/m	Code	m/carton	€/m
18	ACE-19X018 •	60	xxx	ACE-13X018	118	xxx
22	-	-	-	ACE-19X022	56	xxx
28	-	-	-	ACE-19X028	48	xxx
35	-	-	-	ACE-19X035	38	xxx
42	-	-	-	ACE-25X042 •	24	xxx
48	-	-	-	ACE-25X048 •	20	xxx
54	-	-	-	ACE-25X054 •	18	xxx
60	-	-	-	ACE-25X060 •	18	xxx
76	-	-	-	ACE-25X076 •	16	xxx

Pipe max. Outside-Ø [mm]	[IT] Category C [IT] Insulation thickness 30%					
	Code	m/carton	€/m			
18	ACE-06X018 •	228	xxx	-	-	-
22	ACE-09X022	136	xxx	-	-	-
28	ACE-09X028	104	xxx	-	-	-
35	ACE-09X035	76	xxx	-	-	-
42	ACE-13X042	48	xxx	-	-	-
48	ACE-13X048	42	xxx	-	-	-
54	ACE-13X054	38	xxx	-	-	-
60	ACE-19X060	24	xxx	-	-	-
76	ACE-19X076	16	xxx	-	-	-
89	ACE-19X089	16	xxx	-	-	-
114	ACE-19X114	14	xxx	-	-	-

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

• Item not in stock. Delivery on request. [MTO]

Armaflex ACE tubes endless



Color black

Pipe max. Outside-Ø [mm]	6,0 mm insulation thickness			9,0 mm insulation thickness		
	Code	m/carton	€/m	Code	m/carton	€/m
10	ACE-06X010/ER •	46	xxx	ACE-09X010/ER •	34	xxx
12	-	-	-	ACE-09X012/ER •	31	xxx
15	-	-	-	ACE-09X015/ER •	27	xxx
18	-	-	-	ACE-09x018/ER •	23	xxx
22	-	-	-	ACE-09X022/ER	19	xxx

Pipe max. Outside-Ø [mm]	13,0 mm insulation thickness					
	Code	m/carton	€/m			
18	ACE-13X018/ER	15	xxx	-	-	-
22	ACE-13X022/ER	14	xxx	-	-	-

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

• Item not in stock. Delivery on request. [MTO]

Armaflex ACE sheets endless



Width 1,0 m, Color black

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

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 (plastic bags)



Color black, Supplied in plastic bags

Code	Insulation thickness [mm]	Roll length [m]	m ² /carton	€/m ²
ACE-09-99/E-C	9,0	37	37	xxx
ACE-13-99/E-C	13,0	26	26	xxx
ACE-19-99/E-C	19,0	18	18	xxx
ACE-25-99/E-C	25,0	15	15	xxx
ACE-32-99/E-C	32,0	12	12	xxx

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	€/m ²
ACE-06-99/EA	6,0	15	15	xxx
ACE-09-99/EA	9,0	10	10	xxx
ACE-13-99/EA	13,0	8	8	xxx
ACE-19-99/EA	19,0	6	6	xxx
ACE-25-99/EA	25,0	4	4	xxx
ACE-32-99/EA	32,0	3	3	xxx
ACE-40-99/EA	40,0	6	6	xxx
ACE-50-99/EA	50,0	4	4	xxx

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



Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton	€/roll
TAPE/PVC38	38,0	25	0,15	88	xxx

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	€/roll
ACE-TAPE/50	50,0	15	3	12	xxx

Armacell GmbH

Robert Bosch Str. 10 • 48153 Muenster • Germany
Phone +49 (0) 251 / 76 03-0 • Fax +49 (0) 251 / 76 03-448
www.armacell.com • info@armacell.com