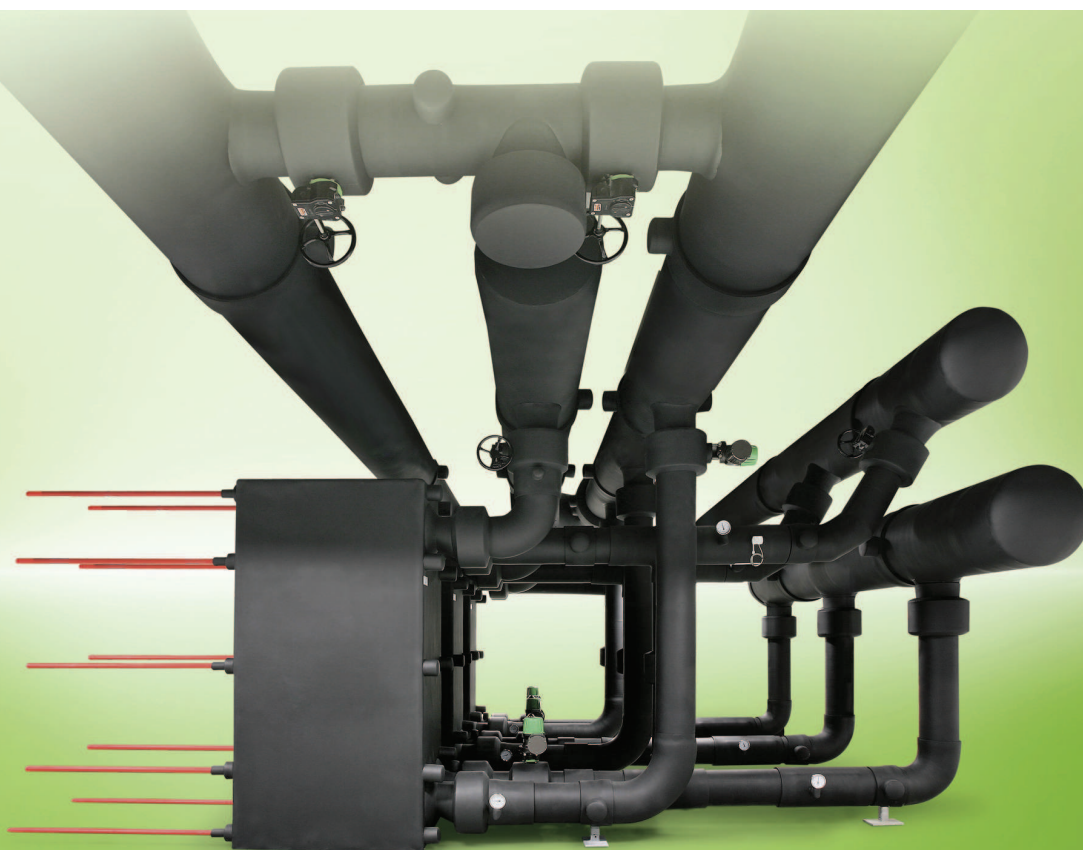


Armaflex® class 0

FLEXIBLE INSULATION SYSTEM
ENGINEERED TO PREVENT
CONDENSATION AND ENERGY LOSSES



- Reliable, built-in condensation control due to closed-cell structure
- Effective reduction of thermal and energy loss
- Class 0 fire performance
- Built-in MICROBAN® antimicrobial product protection reduces mold and bacteria growth
- GREENGUARD® certified for low chemical emissions
- Free of dust, fibre and formaldehyde



Technical Data - Armaflex® Class 0 [APAC]

Brief description	Flexible, closed-cell insulation material with built-in MICROBAN® antimicrobial product protection (sheets).		
Material type	Elastomeric foam based on synthetic rubber		
Colour	Black		
Applications	Insulation of pipes, air ducts and vessels (incl. elbows, fittings, flanges etc.) in hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipework. Found in commercial, industrial, residential and public buildings, insulation helps to control condensation, protect against frost and reduce energy loss.		
Safety and Environment	Dust- and fibre-free Free of formaldehyde ODP zero, GWP zero		
Assembly	Flexible and light-weight. No additional vapor barrier is required due to its closed-cell structure.		

Property	Value/Assessment						Test ^{*1}	Special Remark	
Temperature Range									
Temperature Range	max. service temperature		+ 105 °C		(+ 85 °C if sheet or tape is glued to the object with its whole surface)			For applications between -50 °C and -200 °C, please contact our Technical Department.	
	min. service temperature		- 50 °C						
Thermal Conductivity									
Thermal Conductivity	ϑ _m		-20	+/-0	+ 20	+ 40	[°C]	EN 12667 EN ISO 8497 GB/T 10294 GB/T 10296	
	λ		≤ 0,032	0,034	0,036	0,039	W/(m · K)		
Water vapour diffusion resistance									
Water vapour diffusion resistance	μ				≥		10.000	DIN EN 13469 GB/T 17146-1997	
	Water vapour diffusion resistance		≤ 1.96 x 10 ⁻¹¹ g/(m²·s·Pa)						
Fire performance									
Reaction to fire	Surface Spread of Flame				Class 1		BS 476 Part 7:1997 BS 476 Part 6:1989 GB 8624 - 2012		
	Fire Performance according to Building Regulations				Class 0				
	Burning Behavior of Building Materials & Products				Class B1				
Other Fire Class	Flammability				V-0		UL 94		
	FM 4924				Approved				
	Fire Propagation				Total Index(i) ≤ 12, sub index(i1) ≤ 6				
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames								
Other	Registered by Fire Services Department of Hong Kong for the entire ranges of thickness Certified by TUV SUD PSB to conform to safety, reliability and performance standards of material used in fire safety works in Singapore								
Acoustic Performance									
Reduction of structure-borne sound transmission	Sound Absorption Co-efficient: Up to 0.55 at 1,000 Hz						ISO 354:2003 GB 20247-2006	Also suitable for use in the prevention of sound passage	
Other technical features									
UV resistance	For UV protection, Armafinsh Paint 99 or Arma-Chek® Silver 350 covering system is required.								
Storage & Shelf life	Self-adhesive tapes: 1 year							Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C to 35 °C)	
Antimicrobial behaviour	In-built MICROBAN® antimicrobial product protection in sheets: No fungal growth is observed.								
Resilience after Compression Relief	≥ 70% (50% rate of compression, 72 hours)						GB/T 6669-2001		
Water Absorption	0.9% by volume average (28 days) 1.5% by volume maximum (28 days)								
Chemical Resistance	Excellent resistance to ozone, oil and chemicals (consult product test list).								
Resistance to Building Materials	Very good								
Corrosion to Metal	No corrosion						DIN 1988 Part 7		
Environmental Aspect	Low VOC, Low Total Aldehyde								

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

For outside use, Armaflex should be protected with Armafinsh Paint or Arma-Chek covering within 3 days of installation. 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.



Excellent Fire Performance

Stringent fire safety test standards by leading international agencies certify that Armaflex® Class 0 offers excellent fire performance.

- Class 1 flame spread on surface test requirement of BS 476 Part 7
- Class 0 fire performance according to UL 94
- Certified to conform to safety, reliability and performance standards of various local fire safety bodies

Safer Indoor Air Quality

There is no risk of fibre leakage with Armaflex® insulation material. Furthermore, Armaflex® is certified to have low emissions of volatile organic compounds (VOC).

- Fibre-free
- Free of CFC, HFC and HCFC
- GREENGUARD® certified for low emissions of VOC and total chemical emissions
- Compliant with the Restriction of Hazardous Substances (RoHS) directive

Long-term Condensation Control

Closed-cell insulation materials possess high resistance to water vapor ingress. Combined with low thermal conductivity, Armaflex® offers long-term energy reliability and ongoing energy savings.

Flexible and Easy-to-Install

Armaflex® is a highly flexible elastomeric foam that can be quickly installed with no irritation, even for irregular shapes and installations in tight spaces.

MICROBAN® Protection

The first flexible insulation material with MICROBAN® antimicrobial technology. Built into the insulation material during the manufacturing process, it will not wash away or wear off.

When microbes come into contact with the insulation surface, MICROBAN® penetrates the cell wall of the micro-organism, disabling its ability to function, grow and reproduce.

Armaflex® Class 0 [APAC] tubes



Length 2,0 m, Color black

6,0 mm insulation thickness							9,0 mm insulation thickness						
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m
1/4			6	COB-06X006	384	xxx	1/4			6	COB-09X006	352	xxx
3/8		6	10	COB-06X010	308	xxx	3/8		6	10	COB-09X010	264	xxx
1/2			12	COB-06X012	286	xxx	1/2			12	COB-09X012	220	xxx
5/8	14	8	15	COB-06X015	264	xxx	5/8	14	8	15	COB-09X015	180	xxx
3/4			20	COB-06X020	220	xxx	3/4			20	COB-09X020	144	xxx
7/8	22	15	22	COB-06X022	180	xxx	7/8	22	15	22	COB-09X022	128	xxx
1	25		25	COB-06X025	144	xxx	1	25		25	COB-09X025	108	xxx
1-1/8	28	20	28	COB-06X028	144	xxx	1-1/8	28	20	28	COB-09X028	98	xxx
-	-	-	-	-	-	-	1-1/4	32		32	COB-09X032	84	xxx
-	-	-	-	-	-	-	1-3/8		25	35	COB-09X035	82	xxx
-	-	-	-	-	-	-	1-1/2	38		38	COB-09X038	54	xxx
-	-	-	-	-	-	-	1-5/8		32	42	COB-09X042	64	xxx
-	-	-	-	-	-	-	1-7/8		40	48	COB-09X048	56	xxx
-	-	-	-	-	-	-	2-1/8			54	COB-09X054	54	xxx
-	-	-	-	-	-	-	2-1/4Q	57		57	COB-09X057	54	xxx
-	-	-	-	-	-	-	2-3/8		50	60	COB-09X060	54	xxx

13,0 mm insulation thickness							19,0 mm insulation thickness						
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m
1/4			6	COB-13X006	162	xxx	1/4			6	COB-19X006	96	xxx
3/8		6	10	COB-13X010	144	xxx	3/8		6	10	COB-19X010	84	xxx
1/2			12	COB-13X012	128	xxx	1/2			12	COB-19X012	84	xxx
5/8	14	8	15	COB-13X015	112	xxx	5/8	14	8	15	COB-19X015	70	xxx
3/4			20	COB-13X020	90	xxx	3/4			20	COB-19X020	60	xxx
7/8	22	15	22	COB-13X022	90	xxx	7/8	22	15	22	COB-19X022	60	xxx
1	25		25	COB-13X025	80	xxx	1	25		25	COB-19X025	50	xxx
1-1/8	28	20	28	COB-13X028	72	xxx	1-1/8	28	20	28	COB-19X028	44	xxx
1-1/4	32		32	COB-13X032	64	xxx	1-1/4	32		32	COB-19X032	40	xxx
1-3/8		25	35	COB-13X035	58	xxx	1-3/8		25	35	COB-19X035	40	xxx
1-1/2	38		38	COB-13X038	54	xxx	1-1/2	38		38	COB-19X038	36	xxx
1-5/8		32	42	COB-13X042	56	xxx	1-5/8		32	42	COB-19X042	36	xxx
1-7/8		40	48	COB-13X048	42	xxx	1-7/8		40	48	COB-19X048	30	xxx
2-1/8			54	COB-13X054	42	xxx	2-1/8			54	COB-19X054	30	xxx
2-1/4	57		57	COB-13X057	36	xxx	2-1/4	57		57	COB-19X057	28	xxx
2-3/8		50	60	COB-13X060	36	xxx	2-3/8		50	60	COB-19X060	24	xxx
			67	COB-13X067	36	xxx				67	COB-19X067	22	xxx
	76	70	76	COB-13X076	32	xxx		76	70	76	COB-19X076	16	xxx
	89	80	89	COB-13X089	24	xxx		89	80	89	COB-19X089	12	xxx
	108		108	COB-13X108*	16	xxx		108		108	COB-19X108*	10	xxx
		100	114	COB-13X114*	16	xxx			100	114	COB-19X114*	10	xxx
-	-	-	-	-	-	-			125	140	COB-19X140*	6	xxx

Armaflex® Class 0 [APAC] tubes



Length 2,0 m, Color black

25,0 mm insulation thickness							32,0 mm insulation thickness						
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m
1/4			6	COB-25X006	60	xxx	-	-	-	-	-	-	-
3/8		6	10	COB-25X010	54	xxx	3/8		6	10	COB-32X010	36	xxx
1/2			12	COB-25X012	48	xxx	1/8			12	COB-32X012	32	xxx
5/8	14	8	15	COB-25X015	40	xxx	5/8	14	8	15	COB-32X015	32	xxx
3/4			20	COB-25X020	36	xxx	3/4			20	COB-32X020	24	xxx
7/8	22	15	22	COB-25X022	36	xxx	7/8	22	15	22	COB-32X022	24	xxx
1	25		25	COB-25X025	32	xxx	1	25		25	COB-32X025	22	xxx
1-1/8	28	20	28	COB-25X028	32	xxx	1-1/8	28	20	28	COB-32X028	22	xxx
1-1/4	32		32	COB-25X032	24	xxx	1-1/4	32		32	COB-32X032	20	xxx
1-3/8		25	35	COB-25X035	24	xxx	1-3/8		25	35	COB-32X035	18	xxx
1-1/2	38		38	COB-25X038	24	xxx	1-1/2	38		38	COB-32X038	16	xxx
1-5/8		32	42	COB-25X042	24	xxx	1-5/8		32	42	COB-32X042	16	xxx
1-3/4	45		45	COB-25X045	24	xxx	1-3/4	45		45	COB-32X045	12	xxx
1-7/8		40	48	COB-25X048	20	xxx	1-7/8		40	48	COB-32X048	12	xxx
2-1/8			54	COB-25X054	20	xxx	2-1/8			54	COB-32X054	12	xxx
2-1/4	57		57	COB-25X057	16	xxx	2-1/4	57		57	COB-32X057	12	xxx
2-3/8		50	60	COB-25X060	16	xxx	2-3/8		50	60	COB-32X060	12	xxx
			67	COB-25X067	14	xxx				67	COB-32X067	10	xxx
	76	70	76	COB-25X076	12	xxx		76	70	76	COB-32X076	10	xxx
	89	80	89	COB-25X089	12	xxx		89	80	89	COB-32X089	8	xxx
	108		108	COB-25X108*	8	xxx		108		108	COB-32X108*	6	xxx
		100	114	COB-25X114*	6	xxx			100	114	COB-32X114*	6	xxx
		125	140	COB-25X140*	6	xxx			125	140	COB-32X140*	4	xxx
	6	168.3	169	COB-25X168*	6	xxx		6	168.3	169	COB-32X168*	4	xxx

40,0 mm insulation thickness							50,0 mm insulation thickness						
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Class 0 Armaflex tube nom. Ø mm	Code	m/ carton	€/m
3/8		6	10	COB-40X010	24	xxx	3/8		6	10	COB-50X010	12	xxx
1/2			12	COB-40X012	24	xxx	1/2			12	COB-50X012	12	xxx
5/8	14	8	15	COB-40X015	22	xxx	5/8	14	8	15	COB-50X015	12	xxx
3/4			20	COB-40X020	18	xxx	3/4			20	COB-50X020	12	xxx
7/8	22	15	22	COB-40X022	18	xxx	7/8	22	15	22	COB-50X022	12	xxx
1	25		25	COB-40X025	18	xxx	1	25		25	COB-50X025	12	xxx
1-1/8	28	20	28	COB-40X028	16	xxx	1-1/8	28	20	28	COB-50X028	12	xxx
1-1/4	32		32	COB-40X032	16	xxx	1-1/4	32		32	COB-50X032	10	xxx
1-3/8		25	35	COB-40X035	12	xxx	1-3/8		25	35	COB-50X035	10	xxx
1-1/2	38		38	COB-40X038	12	xxx	1-1/2	38		38	COB-50X038	8	xxx
1-5/8		32	42	COB-40X042	12	xxx	1-5/8		32	42	COB-50X042	8	xxx
1-7/8		40	48	COB-40X048	12	xxx	1-7/8		40	48	COB-50X048	8	xxx
2-1/8			54	COB-40X054	10	xxx	2-1/8			54	COB-50X054	8	xxx
2-1/4	57		57	COB-40X057	10	xxx	-	-	-	-	-	-	-
2-3/8		50	60	COB-40X060	10	xxx	2-3/8		50	60	COB-50X060	8	xxx
			67	COB-40X067	8	xxx				67	COB-50X067	6	xxx
	76	70	76	COB-40X076	8	xxx		76	70	76	COB-50X076	4	xxx
	89	80	89	COB-40X089	8	xxx		89	80	89	COB-50X089	4	xxx
	108		108	COB-40X108*	6	xxx		108		108	COB-50X108*	4	xxx
		100	114	COB-40X114*	4	xxx			100	114	COB-50X114*	4	xxx
		125	140	COB-40X140	4	xxx			125	140	COB-50X140*	4	xxx
	6	168.3	169	COB-40X168*	4	xxx		6	168.3	169	COB-50X168*	4	xxx

Remark

*Recommend to replace with sheet insulation.
40mm and 50mm thickness Armaflex® insulation material are special order items. Please consult our sales representatives for more information.

Armaflex® Class 0 [APAC] sheets endless



Width 1.22 m and 1.5 m, Color black

Code	Insulation thickness [mm]	Roll length [m]	Width [m]	m ² /carton	€/m
COB-06150/E	6,0	15	1.5	22.5	xxx
COB-09150/E	9,0	10	1.5	15	xxx
COB-13150/E	13,0	8	1.5	12	xxx
COB-19150/E	19,0	6	1.5	9	xxx
COB-25122/E	25,0	4	1.22	4.88	xxx
COB-25150/E	25,0	4	1.5	6	xxx
COB-30150/E	30,0	3	1.5	4.5	xxx
COB-32150/E	32,0	3	1.5	4.5	xxx
COB-35150/E	35,0	3	1.5	4.5	xxx
COB-40122/E	40,0	3	1.22	3.66	xxx
COB-50122/E	50,0	2.5	1.22	3.05	xxx

Remark

40mm and 50mm thickness Armaflex® insulation material are special order items. Please consult our sales representatives for more information.

Armaflex® Class 0 [APAC] tapes self-adhesive



Code	Article description	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton	€/m
AS-ATAPECOB9M	Class 0 Armaflex self-adhesive tape, black (9.14m x 50mm x 3mm)	50,0	9.14	3	24	xxx
AS-ATAPECOG9M	Class 0 Armaflex self-adhesive tape, grey (9.14m x 50mm x 3mm)	50,0	9.14	3	24	xxx

Armaflex® Class 0 [APAC] accessories



Code	Article description	Pieces/carton	€/m
AS-AD-5201G	Armaflex® 520 adhesive, 3.78 litre cans	4	xxx
AS-AD8201L	Armaflex 820 adhesive, 1.0 litre cans	12	xxx
AS-AD8205L	Armaflex 820 adhesive, 5.0 litre cans	4	xxx
AS-PAINT2.5LW	Armafinish paint 99, white, 2.5 litre cans	4	xxx
CLEANER/1,0	Special cleaner for use with Armaflex® Adhesive 520 and Armaflex® Adhesive HT625.	4	xxx
CUTTING-SET	Armaflex knife-set (3 knives + 1 sharpening stone)	1	xxx
GLUEM-BRUSH11MM	Gluemaster extra brush points with cap (11mm diameter)	5x4	xxx
GLUEM-BRUSH17MM	Gluemaster extra brush points with cap (17mm diameter)	5x4	xxx
GLUEMASTER B	Armaflex Gluemaster (adhesive pump)	12	xxx

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