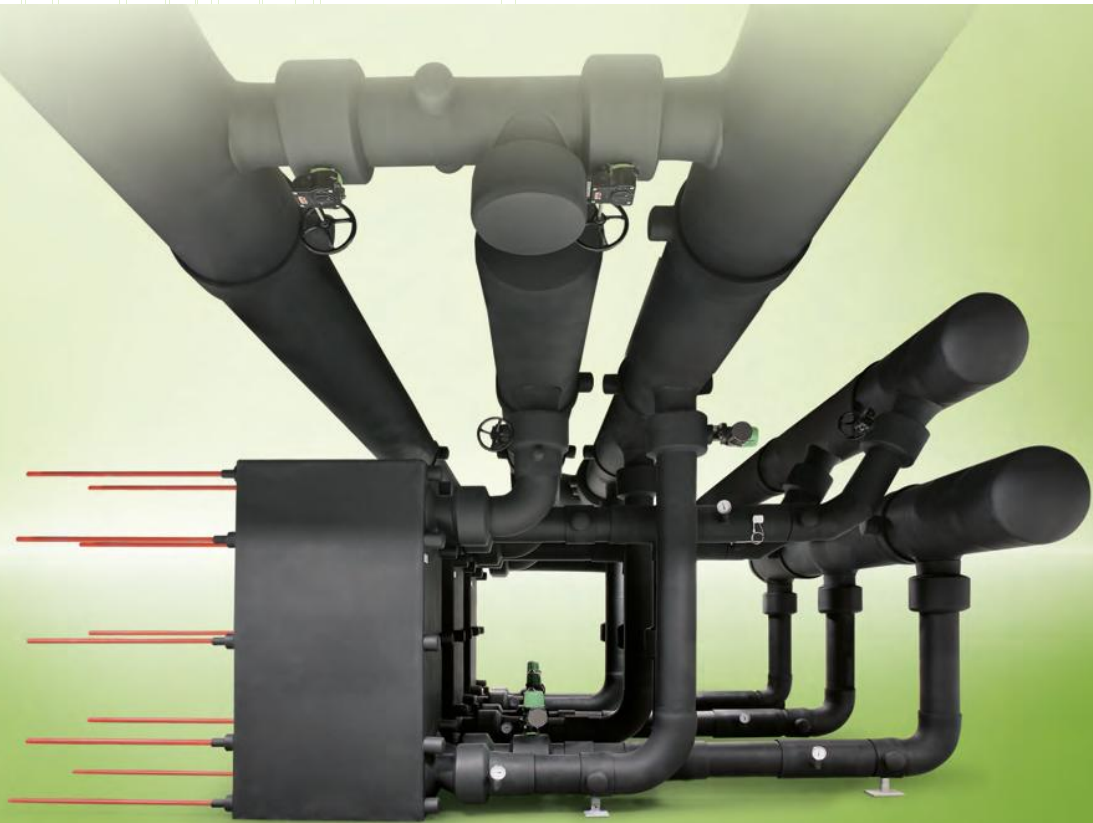


Armaflex®
Class 0

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 classification to BS476 Parts 6 and 7
- Built-in MICROBAN® antimicrobial product protection reduces mold and bacteria growth
- GREENGUARD® certified for low chemical emissions
- Free of fibre and formaldehyde

 **Microban®**
antibacterial protection



Technical Data - Armaflex® Class 0

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.								
Assembly	Flexible and light-weight. No additional vapor barrier is required due to its closed-cell structure.								
Property	Value/Assessment						Test¹	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 12667:2001 EN ISO 8497 GB/T 10294 GB/T10296		
	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 DIN EN 12086 GB/T 17146-1997		
	Water vapour diffusion resistance	≤ 1.96 x 10 ⁻¹¹ g/(m·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					UL94		
	FM 4924	Approved							
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 TÜV SÜD 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, Armafinish Paint 99 or Arma-Chek® Silver 350 covering system is required.								
Health aspects	Dust- and fibre-free Free of formaldehyde Low VOC, Low Total Aldehyde					UL2818-2013		GREENGUARD® Gold for even lower VOC and total chemical emissions	
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 by Vacuum	≤10%					GB/T 17794			
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	Zero ODP and GWP								

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 Armafinish 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 classification to BS 476 Parts 6 and 7
- 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 formaldehyde
- 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 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	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton
1/4			6	COB-06X006	384	1/4			6	COB-09X006	352
3/8		6	10	COB-06X010	308	3/8		6	10	COB-09X010	264
1/2			12	COB-06X012	286	1/2			12	COB-09X012	220
5/8	14	8	15	COB-06X015	264	5/8	14	8	15	COB-09X015	180
3/4			20	COB-06X020	220	3/4			20	COB-09X020	144
7/8	22	15	22	COB-06X022	180	7/8	22	15	22	COB-09X022	128
1	25		25	COB-06X025	144	1	25		25	COB-09X025	108
1-1/8	28	20	28	COB-06x028	144	1-1/8	28	20	28	COB-09X028	98
-	-	-	-	-	-	1-1/4	32		32	COB-09X032	84
-	-	-	-	-	-	1-3/8		25	35	COB-09X035	82
-	-	-	-	-	-	1-1/2	38		38	COB-09X038	54
-	-	-	-	-	-	1-5/8		32	42	COB-09X042	64
-	-	-	-	-	-	1-7/8		40	48	COB-09X048	56
-	-	-	-	-	-	2-1/8			54	COB-09X054	54
-	-	-	-	-	-	2-1/4Q	57		57	COB-09X057	54
-	-	-	-	-	-	2-3/8		50	60	COB-09X060	54

13.0 mm insulation thickness						19.0 mm insulation thickness					
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton
1/4			6	COB-13X006	162	1/4			6	COB-19X006	96
3/8		6	10	COB-13X010	144	3/8		6	10	COB-19X010	84
1/2			12	COB-13X012	128	1/2			12	COB-19X012	84
5/8	14	8	15	COB-13X015	112	5/8	14	8	15	COB-19X015	70
3/4			20	COB-13X020	90	3/4			20	COB-19X020	60
7/8	22	15	22	COB-13X022	90	7/8	22	15	22	COB-19X022	60
1	25		25	COB-13X025	80	1	25		25	COB-19X025	50
1-1/8	28	20	28	COB-13X028	72	1-1/8	28	20	28	COB-19X028	44
1-1/4	32		32	COB-13X032	64	1-1/4	32		32	COB-19X032	40
1-3/8		25	35	COB-13X035	58	1-3/8		25	35	COB-19X035	40
1-1/2	38		38	COB-13X038	54	1-1/2	38		38	COB-19X038	36
1-5/8		32	42	COB-13X042	56	1-5/8		32	42	COB-19X042	36
1-7/8		40	48	COB-13X048	42	1-7/8		40	48	COB-19X048	30
2-1/8			54	COB-13X054	42	2-1/8			54	COB-19X054	30
2-1/4	57		57	COB-13X057	36	2-1/4	57		57	COB-19X057	28
2-3/8		50	60	COB-13X060	36	2-3/8		50	60	COB-19X060	24
			67	COB-13X067	36				67	COB-19X067	22
	76	70	76	COB-13X076	32		76	70	76	COB-19X076	16
	89	80	89	COB-13X089	24		89	80	89	COB-19X089	12
	108		108	COB-13X108*	16		108		108	COB-19X108*	10
		100	114	COB-13X114*	16			100	114	COB-19X114*	10
-	-	-	-	-	-			125	140	COB-19X140*	6

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

40.0 mm insulation thickness						50.0 mm insulation thickness					
Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton	Cu Pipe OD [inch]	Fe Pipe Nom. OD [mm]	Nominal width DN	Armaflex® Class 0 tube nom. Ø mm	Code	m/carton
3/8		6	10	COB-40X010	24	3/8		6	10	COB-50X010	12
1/2			12	COB-40X012	24	1/2			12	COB-50X012	12
5/8	14	8	15	COB-40X015	22	5/8	14	8	15	COB-50X015	12
3/4			20	COB-40X020	18	3/4			20	COB-50X020	12
7/8	22	15	22	COB-40X022	18	7/8	22	15	22	COB-50X022	12
1	25		25	COB-40X025	18	1	25		25	COB-50X025	12
1-1/8	28	20	28	COB-40X028	16	1-1/8	28	20	28	COB-50X028	12
1-1/4	32		32	COB-40X032	16	1-1/4	32		32	COB-50X032	10
1-3/8		25	35	COB-40X035	12	1-3/8		25	35	COB-50X035	10
1-1/2	38		38	COB-40X038	12	1-1/2	38		38	COB-50X038	8
1-5/8		32	42	COB-40X042	12	1-5/8		32	42	COB-50X042	8
1-7/8		40	48	COB-40X048	12	1-7/8		40	48	COB-50X048	8
2-1/8			54	COB-40X054	10	2-1/8			54	COB-50X054	8
2-1/4	57		57	COB-40X057	10	-	-	-	-	-	-
2-3/8		50	60	COB-40X060	10	2-3/8		50	60	COB-50X060	8
			67	COB-40X067	8				67	COB-50X067	6
	76	70	76	COB-40X076	8		76	70	76	COB-50X076	4
	89	80	89	COB-40X089	8		89	80	89	COB-50X089	4
	108		108	COB-40X108*	6		108		108	COB-50X108*	4
		100	114	COB-40X114*	4			100	114	COB-50X114*	4
		125	140	COB-40X140	4			125	140	COB-50X140*	4
	6	168.3	169	COB-40X168*	4		6	168.3	169	COB-50X168*	4

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 sheets endless



Width 1.22 m and 1.5 m, Color black

Code	Insulation thickness [mm]	Roll length [m]	Width [m]	m ² /carton
COB-06150/E	6.0	15	1.5	22.5
COB-09150/E	9.0	10	1.5	15
COB-13150/E	13.0	8	1.5	12
COB-19150/E	19.0	6	1.5	9
COB-25122/E	25.0	4	1.22	4.88
COB-25150/E	25.0	4	1.5	6
COB-30150/E	30.0	3	1.5	4.5
COB-32150/E	32.0	3	1.5	4.5
COB-35150/E	35.0	3	1.5	4.5
COB-40122/E	40.0	3	1.22	3.66
COB-50122/E	50.0	2.5	1.22	3.05

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

Armaflex® Class 0 tapes self-adhesive



Code	Article description	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
AS-ATAPECOB9M	Armaflex® Class 0 self-adhesive tape, black (9.14m x 50mm x 3mm)	50.0	9.14	3	24

Armaflex® Class 0 accessories



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

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