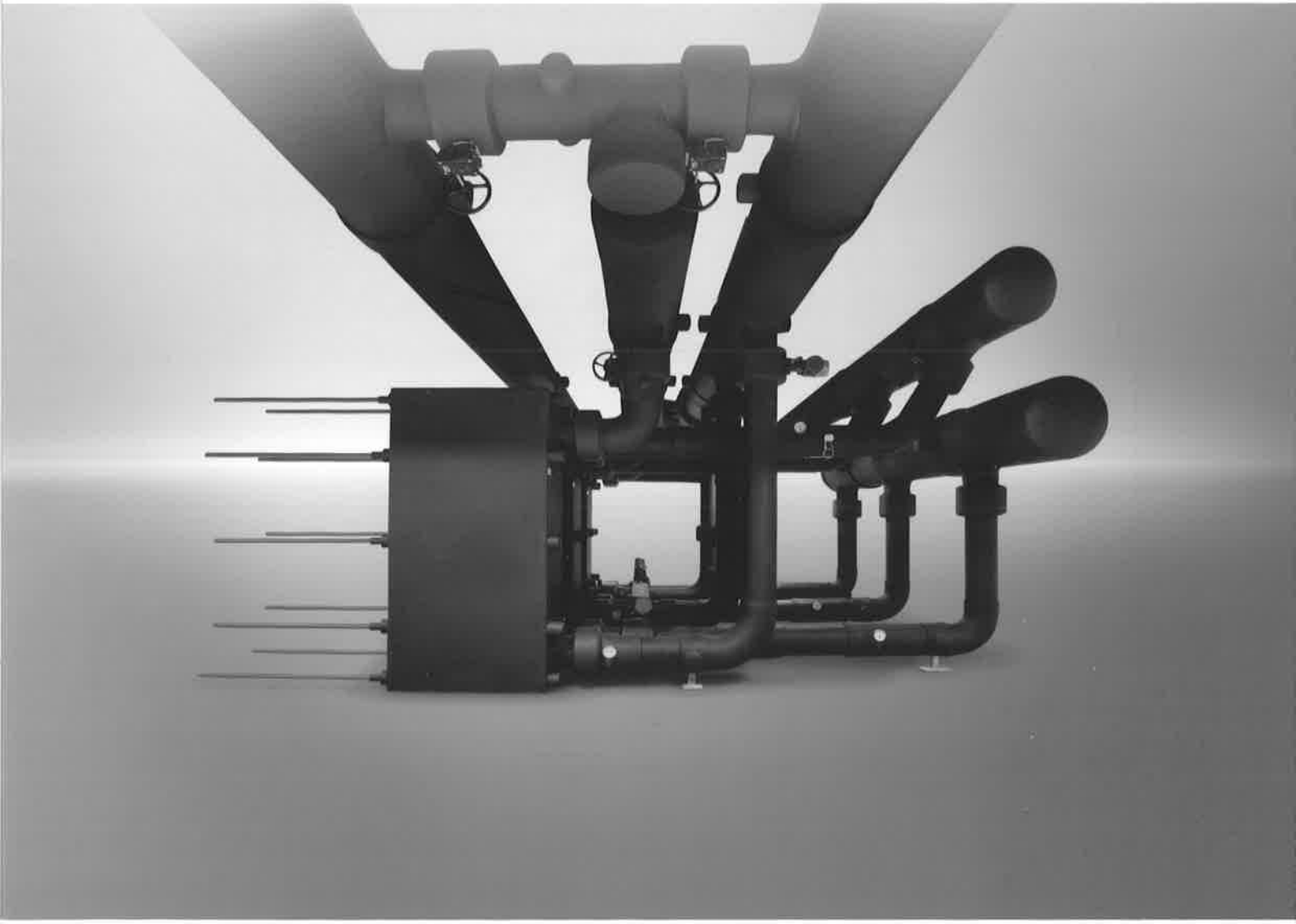
Armaflex®
Class 0

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

GREENGUARD
GOLD

FM
APPROVED

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					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 12667:2001 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, Armafinsh 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.

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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

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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	1/8			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			1255	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.

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Armaflex® Class 0 sheets endless

Width 1.22 m and 1.5 m, Color black

Code	Insulation thickness [mm]	Roll length [m]	Width [m]	m²/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	Gluemaster extra brush points with cap (11mm diameter)	5x4
GLUEM-BRUSH17MM	Gluemaster extra brush points with cap (17mm diameter)	5x4
GLUEMASTER B	Armaflex® Gluemaster (adhesive pump)	12

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