

FOR SAFETY, EFFICIENCY & BETTER INDOOR AIR QUALITY

ArmaFlex® Class 0

The trusted insulation system for HVAC applications

// Class 0 fire classification according to BS476 Parts 6 and 7

// Reduces mould and bacteria growth with Microban® antimicrobial product protection, unique to Armacell

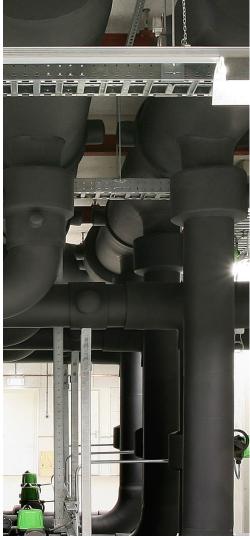
// Effectively reduces thermal and energy loss













ArmaFlex Class 0

Your trusted insulation system for HVAC applications. Conserves energy and reduces heat loss. Class 0 fire classification according to BS476 Parts 6 and 7. Certified by leading international fire safety agencies. Fibre-free. Infused with Microban antimicrobial protection for even better indoor air quality.

Energy efficient



Easy to install



Better air quality



// Excellent fire performance

FM Approved for entire range of insulation thickness. Certified to conform to safety, reliability and performance standards of various local fire safety bodies.

// Closed-cell structure

Minimises moisture permeation to ensure long-term protection against corrosion under insulation. Removes the need for an additional water vapour barrier.

// Energy efficient

Low thermal conductivity minimises energy losses to give long term energy savings.

// Microban protection

When microbes come into contact with the insulation surface, Microban penetrates the cell wall of the microorganism, disabling its ability to function, grow and reproduce.

// Environmentally safe

Zero Ozone Depletion Potential and Global Warming Potential; rated "Excellent" by Singapore Green Building Council.

// Safer indoor air quality

Free of fibre and formaldehyde, and GREENGUARD® Gold certified for low emissions of volatile organic compounds.

// Easy-to-install

Highly flexible elastomeric foam that can be installed quickly on irregular shapes and installations in tight spaces.



TECHNICAL DATA - ARMAFLEX CLASS 0

Brief description	ArmaFlex Class 0 is a flexil No additional water vapour			reliably pro	tects against water vapour ingress due t	to its closed-cell structure.		
Material type	Elastomeric foam based on synthetic rubber.							
Colour	Black.							
Special features	ArmaFlex sheets is infused with Microban antimicrobial protection to provide additional assurance against mould and bacteria growth.							
Applications	nermal insulation/protection of pipes, air ducts and vessels (including elbows, fittings, flanges etc.) in hot and cold water services, chilled ater lines, heating systems, air conditioning ductwork and refrigerated pipework, installed in commercial, industrial, residential and ublic buildings to control condensation, protect against frost and reduce energy loss.							
Installation		ease refer to the ArmaFlex installation manual for advice. ArmaFlex can be used together with ArmaFlex 520 adhesive and ArmaFix® pehangers for a complete insulation system.						
Property	Value/Assessment					Standard/Test method		
Temperature range								
Service temperature	Range	Minimur	n [°C]		Maximum [°C]			
	Full range	-50			+105			
	Remarks	+85 °C if	sheet or ta	pe is glued	to the object with its whole surface.			
Thermal conductivity								
Declared thermal conductivity	θ_{m}	-20 °C	+/-0 °C	+20 °C	+40 °C	GB/T 10295, GB/T 10296,		
	$\lambda_{d} \leq [W/(m \cdot K)]$	0.032	0.034	0.036	0.039	ASTM C518, EN ISO 8497		
Resistance to water vapour								
Water vapour diffusion resistance factor	µ ≥ 10,000					GB/T 17146-1997, DIN EN 13469, DIN EN 12086		
Water vapour permeability	≤ 1.96 x 10 ⁻¹¹ g/(m·s·Pa)							
Resistance to water								
Water absorption by vacuum	≤ 10%					GB/T 17794		
Water absorption by volume	≤ 0.2%					ASTM C209, ASTM C1763		
Fire performance								
Surface spread of flame	Class 1					BS 476 Part 7		
Fire propagation for products	Class 0					BS 476 Part 6		
Burning behaviour of building materials and products	Class B1					GB 8624		
Flammability of plastic materials	s V-0 rating					UL 94		
FM Approved	Yes					FM 4924		
Practical fire behaviour	Does not generate flaming							
Surface flammability	Marine application: Low flame spread material					IMO 2010 FTP Code		
Other fire class	Registered by the Fire Services Department of Hong Kong for the entire range of thickness. Product conforms to the requirements for building products under the Fire Safety and Shelter Department, Singapore.							
Mechanical properties								
Resilience after compression relief	≥ 70%	GB/T 6669						
Weather and UV resistance						•		
UV resistance	For UV protection, ArmaFir should be protected within			overing sys	em is required. For outside use, ArmaFl	lex		
Health and environment								
Antimicrobial behaviour	Built-in Microban antimicro	obial product pr	otection in s	sheets.				
Environmental aspect	Zero ODP and GWP. Complies with Restriction of Hazardous Substances Directive (RoHS).							
Environmental Product Declaration (EPD)	Type III EPD: Declaration number 4789125188.101.1, UL Environment.							
Fungal growth	No fungal growth is observed. ASTM G21							
Health aspects	Free of fibre and formaldehyde. Low volatile organic compounds (VOC) and total aldehyde. GREENGUARD Gold for even lower VOC and total chemical emissions.					UL2818		
Green building assessment	Singapore Green Building F	Product Certifie	d: "Excellen	t" rating.				
Other technical features								
Chemical resistance	Excellent resistance to ozo	ne, oil and chen	nicals (cons	ult product	test list).			
Storage	-				midity (50% to 70%) and ambient temper	rature		
Shelf (storage life)	Self-adhesive sheets, tube	s and tanes: 1 v	ear					

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 our Technical department in due time whether or not the data and information apply to the intended application area.

Tube - standard (2.0m length)

Insulation Cu pipe		Fe pipe		6mm		9mm		13mm		19mm	
inner diameter [mm]	r outer outer Nominal leter diameter diameter	diameter	Item	Carton content [m]	Item	Carton content [m]	Item	Carton content [m]	Item	Carton content [m]	
6	1/4		_			COB-09X006	312	COB-13X006	180	COB-19X006	96
10	3/8	-	6			COB-09X010	264	COB-13X010	144	COB-19X010	84
12	1/2	_		_		COB-09X012	220	COB-13X012	128	COB-19X012	84
15	5/8	- 14	8			COB-09X015	180	COB-13X015	112	COB-19X015	70
20	3/4			-		COB-09X020	144	COB-13X020	90	COB-19X020	60
22	7/8	22	15			COB-09X022	128	COB-13X022	90	COB-19X022	60
25	1	25		COB-06X025#	144	COB-09X025	108	COB-13X025	80	COB-19X025	50
28	1-1/8	28	20			COB-09X028	98	COB-13X028	72	COB-19X028	50
32	1-1/4	32		_		COB-09X032#	84	COB-13X032	64	COB-19X032	40
35	1-3/8		25			COB-09X035	82	COB-13X035	58	COB-19X035	40
38	1-1/2	38		_		COB-09X038#	72	COB-13X038#	54	COB-19X038#	36
42	1-5/8		32			COB-09X042	64	COB-13X042	48	COB-19X042	36
45	1-3/4	-		=			•			COB-19X045#	30
48	1-7/8	_	40			COB-09X048#	56	COB-13X048	42	COB-19X048	30
54	2-1/8	=		=		COB-09X054#	54	COB-13X054	42	COB-19X054	30
57	2-1/4	- 57						COB-13X057#	36	COB-19X057#	28
60	2-3/8		- 50			COB-09X060	54	COB-13X060	36	COB-19X060	24
67	2-5/8	_		_				COB-13X067#	36	COB-19X067#	22
76	3	- 76						COB-13X076	32	COB-19X076	16
89	3-1/2	89	80					COB-13X089	24	COB-19X089	12
108	4-1/4	108		_				COB-13X108#	16	COB-19X108#	10
114	4-1/2	114	100					COB-13X114	16	COB-19X114#	10
140			125	_							
168			150	_							

*Made to order. Minimum order quantities and different lead times may apply.

Self-adhesive option available upon request. Minimum order quantities and different lead times may apply.

Sheet - continuous roll

		1.22m width	1	1.50m width				
Insulation thickness [mm]	Item	Length [m]	Carton content [sqm]	Item	Length [m]	Carton content [sqm]		
9				COB-09150/E	10	15.0		
13	COB-13122/E	8	9.76	COB-13150/E	8	12.0		
16				COB-16150/E#	7	10.5		
19	COB-19122/E	6	7.32	COB-19150/E	6	9.0		
25	COB-25122/E	4	4.88	COB-25150/E	4	6.0		
30				COB-30150/E	3	4.5		
32				COB-32150/E	3	4.5		
40	COB-40122/E	3	3.66					
50	COB-50122/E	2.5	3.05					

[#]Self-adhesive option available upon request. Minimum order quantities and different lead times may apply.

Tube - standard (2.0m length)

Inculation	Cu mima	Eo nino		25mm		32mm		40mm		50mm	
Insulation inner diameter [mm]	outer diameter [inch]	Fe pipe outer diameter [mm]	Nominal diameter [DN]	Item	Carton content [m]						
6	1/4			COB-25X006	60	COB-32X006#	40				
10	3/8	_	6	COB-25X010	54	COB-32X010	36	COB-40X010	24		
12	1/2	_		COB-25X012	48	COB-32X012	32	COB-40X012	24		
15	5/8	14	8	COB-25X015	40	COB-32X015	32	COB-40X015	22		
20	3/4			COB-25X020	36	COB-32X020	24	COB-40X020	18	COB-50X020#	12
22	7/8	22	15	COB-25X022	36	COB-32X022	24	COB-40X022	18	COB-50X022#	12
25	1	25		COB-25X025	32	COB-32X025	22	COB-40X025#	18		
28	1-1/8	28	20	COB-25X028	32	COB-32X028	22	COB-40X028	16	COB-50X028	12
32	1-1/4	32		COB-25X032	32	COB-32X032	20				
35	1-3/8		 25	COB-25X035	30	COB-32X035	18	COB-40X035	12	COB-50X035	10
38	1-1/2	38		COB-25X038#	24	COB-32X038#	16	COB-40X038#	12		
42	1-5/8		32	COB-25X042	24	COB-32X042	16	COB-40X042	12	COB-50X042	8
45	1-3/4	_				COB-32X045#	12				
48	1-7/8	_	40	COB-25X048	20	COB-32X048	12	COB-40X048	12	COB-50X048	8
54	2-1/8	=	-	COB-25X054	20	COB-32X054	12	COB-40X054#	10	COB-50X054#	8
57	2-1/4	- 57		COB-25X057#	16	COB-32X057#	12				
60	2-3/8		50	COB-25X060	20	COB-32X060	12	COB-40X060	10	COB-50X060	8
67	2-5/8	_		COB-25X067	14	COB-32X067	10	COB-40X067#	8	COB-50X067#	6
76	3	- 76		COB-25X076	16	COB-32X076	10	COB-40X076	8	COB-50X076	4
89	3-1/2	89	80	COB-25X089	12	COB-32X089	8	COB-40X089	8	COB-50X089	4
108	4-1/4	108		COB-25X108	8	COB-32X108#	6	COB-40X108#	6	COB-50X108#	4
114	4-1/2	114	100	COB-25X114	6	COB-32X114#	6	COB-40X114	4	COB-50X114	4
140			125	COB-25X140#	6			COB-40X140#	4	COB-50X140	4
168	=		150	COB-25X168#	6			COB-40X168#	4	COB-50X168	4

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ArmaFlex Class O Accessories

Item	Carton content	Article description
AS-ATAPECOB-9M	24 rolls	ArmaFlex Class 0 insulation tape (3mm thickness x 50mm width x 9.14 m)

Accessories

Item	Carton content	Article description
AS-AD5201E	4 x 3.78 litre cans	ArmaFlex 520 adhesive
CLEANER/1,0	4 x 1.0 litre cans	Solvent-free cleaner for use with ArmaFlex adhesive
CUTTING-SET	1	ArmaFlex cutting set (3 knives and 1 sharpening stone)