

Class 1 Armaflex®

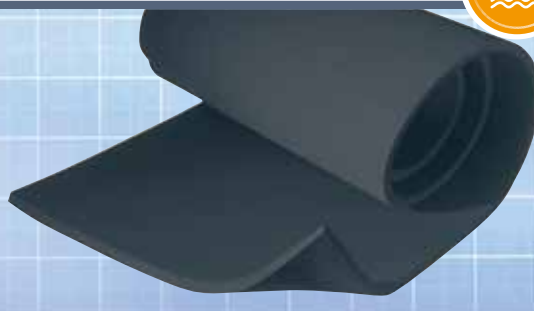
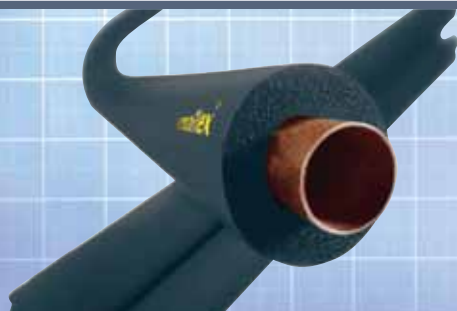


► **Class 1 Armaflex®**

**WHEN YOU CAN'T AFFORD
TO SWEAT.**

Class 1 Armaflex--Professional insulation to prevent condensation

new
 $\mu \geq 10,000$
 $\lambda_{0^{\circ}\text{C}} \leq 0.034$



Class 1 Armaflex: Higher resistance to water vapour Transmission

Class 1 Armaflex is a CFC & HCFC free (ozone depletion potential of zero), flexible, black, closed cell, elastomeric nitrile rubber insulation providing a highly efficient method of controlling condensation and insulating against both heat loss and heat gain. Over 50 years practical experience combined with intensive and ongoing research and development make Class 1 Armaflex the preferred choice. Class 1 Armaflex is particularly suitable for insulating pipework for condensation control. It can be used on chilled water lines, air conditioning ductwork and refrigerated pipework and can also be used with heating systems and hot and cold water services. Class 1 Armaflex is dust free, fibrefree, CFC and HCFC free (ozone depletion potential of zero). It is available in a wide range of sizes.

$\mu \geq 10,000$
 $\lambda_0 \leq 0.034$
 CFC Free
 HCFC Free



High μ factor → Increased resistance to water vapour

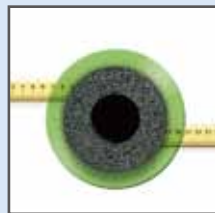
→ Minimises long term heat gain

→ Reduces energy costs.



1. Fire Performance

Class 1 Armaflex has an excellent fire safety performance achieving Class 1 to BS476 Part 7 1997.



2. Water Vapour Resistance Factor (μ Factor)

Class 1 Armaflex has a closed cell structure, which is a 'built-in' vapour barrier with a very high resistance to water vapour transmission. The high μ factor enhances the product's resistance to water vapour, enabling the insulation material to maintain a higher level of efficiency.

3. Engineered Wall Thickness

The engineered wall concept provides a constant surface temperature for a nominal wall thickness under a given set of environmental and service conditions. In practice this means that the actual wall thickness of Class 1 Armaflex is increased as the pipe size increases. A wall thickness requirement for a range of pipe sizes operating with the same line temperature in the same environment can therefore be determined by carrying out just one calculation.

4. Ease of Installation

Class 1 Armaflex is a highly flexible material, making it quick and easy to install, either by sleeving onto pipework as the job progresses or, if this is not possible, pre-slit lengths are available which can be snapped on to finished pipework and sealed using Armaflex 520 adhesive.

Size Range

Standard tube length: 2m/pcs, black



Copper Tube			Iron & steel pipe		Minimum ID Armaflex	D Nominal Thickness 6mm		F Nominal Thickness 9mm		H Nominal Thickness 13mm		M Nominal Thickness 19mm		R Nominal Thickness 25mm		T Nominal Thickness 32mm		U Nominal Thickness 40mm		V Nominal Thickness 50mm		
NB in	Nom OD in	Nom OD mm	NB in	Nom OD mm		Code	m/ctn	Code	m/ctn	Code	m/ctn	Code	m/ctn	Code	m/ctn	Code	m/ctn	Code	m/ctn	Code	m/ctn	Code
	1/4	6			6.5	CI-D-006	612	CI-F-006	352	CI-H-006	180	CI-M-006	112									
	3/8	10			10	CI-D-010	440	CI-F-010	264	CI-H-010	144	CI-M-010	100	CI-R-010	60							
	1/2	12			13	CI-D-012	352	CI-F-012	220	CI-H-012	128	CI-M-012	90	CI-R-012	56							
	1/2	15			16	CI-D-015	264	CI-F-015	180	CI-H-015	112	CI-M-015	80	CI-R-015	48	CI-T-015	32	CI-U-015	22	CI-V-015	14	
	5/8	15			19.5	CI-D-020	220	CI-F-020	144	CI-H-020	90	CI-M-020	72	CI-R-020	40	CI-T-020	24	CI-U-020	22	CI-V-020	12	
	3/4	22	1/2	21.3	22.5	CI-D-022	180	CI-F-022	128	CI-H-022	90	CI-M-022	60	CI-R-022	40	CI-T-022	24	CI-U-022	18	CI-V-022	12	
					26	CI-D-025	144	CI-F-025	108	CI-H-025	82	CI-M-025	50	CI-R-025	36	CI-T-025	24	CI-U-025	18	CI-V-025	12	
	1	28	3/4	26.9	29	CI-D-028	144	CI-F-028	98	CI-H-028	72	CI-M-028	40	CI-R-028	32	CI-T-028	22	CI-U-028	16	CI-V-028	12	
					32.5			CI-F-032	84	CI-H-032	64	CI-M-032	40	CI-R-032	24	CI-T-032	20	CI-U-032	16	CI-V-032	10	
	11/4	35	1	33.7	35.5			CI-F-035	82	CI-H-035	58	CI-M-035	36	CI-R-035	24	CI-T-035	18	CI-U-035	12	CI-V-035	10	
					38.5			CI-F-038	72	CI-H-038	54	CI-M-038	34	CI-R-038	24	CI-T-038	16	CI-U-038	12	CI-V-038	8	
	11/2	42	11/4	42.4	42			CI-F-042	60	CI-H-042	48	CI-M-042	28	CI-R-042	22	CI-T-042	16	CI-U-042	12	CI-V-042	8	
					45			CI-F-045	50	CI-H-045	40	CI-M-045	24	CI-R-045	20	CI-T-045	12	CI-U-045	12	CI-V-045	8	
			11/2	48.3	48			CI-F-048	50	CI-H-048	40	CI-M-048	24	CI-R-048	20	CI-T-048	12	CI-U-048	12	CI-V-048	8	
	2	54			54.5			CI-F-054	40	CI-H-054	36	CI-M-054	24	CI-R-054	20	CI-T-054	10	CI-U-054	10	CI-V-054	8	
	21/4	57			58			CI-F-057	40	CI-H-057	32	CI-M-057	22	CI-R-057	16	CI-T-057	10	CI-U-057	10	CI-V-057	8	
			2	60.3	61			CI-F-060	32	CI-H-060	28	CI-M-060	20	CI-R-060	16	CI-T-060	10	CI-U-060	10	CI-V-060	8	
	21/2	67			67.5					CI-H-067	24	CI-M-067	16	CI-R-067	14	CI-T-067	8	CI-U-067	8	CI-V-067	6	
	213/16	76.1	21/2	76.1	77					CI-H-076	22	CI-M-076	14	CI-R-076	12	CI-T-076	8	CI-U-076	8	CI-V-076	4	
			3	88.9	89.5					CI-H-089	18	CI-M-089	12	CI-R-089	12	CI-T-089	8	CI-U-089	8	CI-V-089	4	
	4	108			109					CI-H-108*	16	CI-M-108*	10	CI-R-108*	8	CI-T-108*	6					
		100	4	114.3	116							CI-M-114*	10	CI-R-114*	6	CI-T-114*	4					
					135							CI-M-133*	6	CI-R-133*	6	CI-T-133*	4					
		125		139.7	142							CI-M-140*	6	CI-R-140*	4	CI-T-140*	4					

*Recommend replacing by sheet

Continuous sheet black, 1.5 metre width

code	thickness (mm)	Length (m/pcs)	m ² / ctn	code	thickness (mm)	Length (m/pcs)	m ² / ctn
C1 06150CS	6	15	22.5	C1 19150CS	19	6	9
C1 09150CS	9	10	15	C1 25150CS	25	4	6
C1 13150CS	13	8	12	C1 32150CS	32	3	4.5

Flat sheet black, 1.55 metre width

code	thickness (mm)	Length (m/pcs)	m ² / ctn	(pcs/ctn)
C1 40150CS	40	1.5	11.25	5
C1 50150CS	50	1.5	9	4

If any other size request please contact our sales.

Class 1 Armaflex-Technical Data

Property	Value	Test Method
Temperature range		
Minimum Line	-50°C	
Maximum Line	+105°C	
Flat Surfaces and tape	+85°C	
Thermal conductivity		
at 0°C	0.034 W/(m·K)	BS 874 Part 2 1986
at +20°C	0.036 W/(m·K)	
Water vapour permeability Moisture resistance Factor (ISO 9346)	$\mu \geq 10000$ 1.96×10^{-11} g/(m·s·Pa)	DIN 52 615 BS 4370 Part 2 1973
Fire performance		
Surface spread of flame, Behaviour in fire,	Class 1 does not generate flaming droplets	British Standard BS 476 Part 7 : 1997 Conditions similar to BS 476 part 20 1987,
Wall penetrations,	180 minutes	12.7-38mm pipe diameter with 19mm Class 1 Armaflex through a 250mm wall
Noise reduction, Resistance to building materials, Resistance to chemicals,	acoustic level to 30 db(A) very good consult product test list	
Dimensions	Standard tube 2m lengths Continuous sheet 1m wide black	

Outdoor Applications, Class 1 Armaflex should be painted with Armafinish CO paint to the recommended thickness. Two or more coats may be required.



Armaflex tube used to insulate a large plant room

Tube

Armaflex insulation is a highly flexible, elastomeric material. It is quick and easy to install, either by sleeving onto pipes as the job progresses or by using pre-slit lengths which can be snapped onto finished pipework and sealed using Armaflex adhesive.

Continuous Sheet

The ideal choice when insulating tanks, ductwork, large pipes or irregular shapes. Easy to install and available in 1.5 metre wide continuous rolls, giving economic material usage. Self-adhesive sheet is also available.



Armaflex sheet being fitted to rooftop ductwork

Accessories



Armaflex 520 Adhesive

A low viscosity adhesive which ensures a neat secure water vapour resistant bond.
Code:AS-AD5201G, 3.78litre/can



Armaflex Special Cleaner

For preparing surfaces prior to installing Armaflex and for cleaning adhesive from brushes, tools, etc.

Code:AS-CLEAN1L

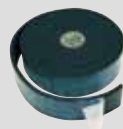


Armafinish CO Paint

Protective water-based white paint for use on Armaflex installed outdoors. Provides a tough flexible film which is resistant to UV radiation, ozone and many aggressive chemicals.

Code:AS-PAINT2.5LW, 2.5litre/can

Code:AS-PAINT10LW, 10litre/can



Self-Adhesive Tape

Self-Adhesive Tape, ideal for insulating fittings and short lengths of pipe in hard to reach areas. 3mm thick, 50 mm wide, 15 m or 30 m long.

Code:AS-ATAPE30M

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended by the recipient.