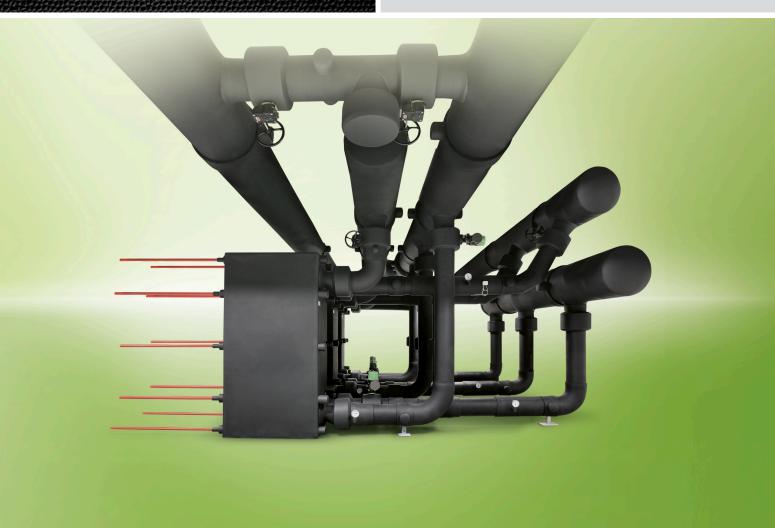


THE FIRST CHOICE FOR PROFESSIONAL INSTALLATIONS



- High flexibility and ease of installation.
- Increases equipment life-cycle.
- Reliable condensation control and prevention of corrosion under insulation.
- Built-in Microban® antimicrobial protection.









AF/Armaflex Class 0

TRIPLE SECURITY

AF/Armaflex Class 0 is the professional flexible insulation for reliable condensation control. The combination of a low thermal conductivity value of 0.033 W/(m • K) and extremely high resistance to water vapour transmission ($\mu \ge 10,000$) prevents long-term energy losses, water vapour ingress and reduces the risk of corrosion under insulation.



AF/ARMAFLEX CLASS O WITH ACTIVE MICROBAN® ANTIMICROBIAL PROTECTION

Conditioned systems can be problematic for the development of microbes and contamination, with indoor air up to 10 times more polluted than outdoor air. Microbes found in and on HVAC systems include stain and odour causing bacteria and mould and mildew. These microbes subsequently emit spores, cells, fragments and volatile organic compounds (VOC) into indoor air which contributes to sick building syndrome. Mould and mildew can additionally cause degradation of insulation materials.

AF/Armaflex Class O is the first flexible insulation material equipped with MICROBAN® technology. When microbes come into contact with the insulation surface, MICROBAN® protection penetrates the cell wall of the microorganism, disabling its ability to function, grow and reproduce. Because the protection is built in during the manufacturing process, it will not wash off or wear away. This gives AF/Armaflex Class O products an added level of protection against mould and mildew and is therefore the ideal solution for insulating ventilation or air-conditioning equipment in schools, hospitals, care homes, offices and airports, as well as mechanical systems in the pharmaceutical and food industries.









TRUSTED FOR 40 YEARS

With a combination of internal and externally monitored technical values we offer consistently high-quality products. This is the result of 40 years experience and continual research and development of the product properties.

AF/Armaflex Class O is manufactured in the UK to meet local fire standards, is compliant with the CE marking legislation requirements for thermal insulation products and is tested to the new Euroclass fire standards.

COMPLETE SYSTEM

Armacell offers a complete and carefully considered system solution to meet professional insulation requirements: AF/ Armaflex Class O standard, self-adhesive and endless tubes, sheet, tape and accessories.



Ready made **specification texts** are available to download and use from the ArmaPlus section of the UK website (www. armacell.com).

ArmWin is the technical calculation program from Armacell that allows the correct insulation thickness to be determined for preventing condensation and to minimise energy losses.

Application training: Accredited training for insulation contractors is available and upon successful completion, certification is provided for attendees.

Technical Data - AF/Armaflex Class 0

Brief description	Flexible, closed-cell insulation material with built-in Microban® antimicrobial protection
Material type	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	Black
Material Special Information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure. Covered with polyethylene film. Traces of silicon can be found on the protective film used on self-adhesive closures.
Applications	Insulation / protection to control condensation, reduce energy losses and protect against frost on pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) Suitable for hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipework.
Special Features	MCCP-free
Safety and Environment	Type III Environmental Product Declaration (EPD): Declaration number "EPD-ARM-20150110-IBB1-DE", Institut Bauen und Umwelt e.V. (IBU)
Assembly	Light weight and flexible. Closed cell structure means no additional vapour barrier is required.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Temperature Range				Test ^{*1}	Super- vision ^{*2}	Special Remark
1						
Temperature Range	max. service temperature	+ 110 °C	(+ 85 °C if sheet or tape is glued to the object with its whole surface.)	EU 5709	∘/∙	Tested acc. to EN 14706, EN 14707 and
	min. service temperature ¹	-50 °C				EN 14304
Thermal Conductivity						
Thermal Conductivity	ϑ _m +/-0	°C	λ=	EU 5709	∘/∙	Declared acc. to EN ISO 13787
Conductivity	Tubes $\lambda \leq 0,033$ 6-19 mm	W/(m · K)	$[33 + 0, 1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$			Tested acc. to EN 12667 EN ISO 8497
	Tubes λ ≤ 0,036 25-32 mm	W/(m · K)	$[36 + 0, 1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$			
	Sheets, λ ≤ 0,033 tape 3-32 mm	W/(m · K)	$[33 + 0, 1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$			
Water vapour diffusion	n resistance					
Water vapour diffusion resistance	Tubes 6-19 mm ; µ Sheets 6-32 mm	≥	10.000	EU 5709	∘/●	Tested acc. to EN 12086 EN 13469
	Tubes 25-32 mm µ	≥	7.000			EN 13409
Fire performance						
Reaction to fire	tubes	B _L -s3, d	10	EU 5709	∘/●	Classified acc. to EN 13501-1
	sheets	B-s3,d0	1			Tested acc. to
	tape	B-s3,d0				EN 13823 EN ISO 11925-2
Other Fire Class	FM-approved			D 5551 & D5614	0/●	Tested according to UBC26-3, Class
	Surface Spread of Flame	Class 1		GB 6935 & GB 6936		No.4924 Acc. to BS 476 Part
Dractical Fire	Fire Propagation	Class 0				6&7
Practical Fire Behaviour	Self-extinguishing, does not drip,	does not spread names				
Fire resistance of structural element		EI 30 -	- EI 90	EU 5584		Classified acc. to EN 13501-2 Tested acc. to EN 1366-3
Other	Marine Approval - DNV-GL appro	val		EU 5928		Tested acc. to IMO 2010 FTP Code
Other technical feature	es					
Dimensions and tolerances	In accordance with EN 14304, tak	ble 1		EU 5709	∘/●	Tested acc. to EN 822, EN 823, EN 13467
UV resistance ²	Protection against UV-radiation is	necessary.		TB 142		
Storage & Shelf life	Self-adhesive tapes, self-adhesiv			Can be stored in dry clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).		
Antimicrobial behaviour	In-built Microban® active antimicro	obial protection: No fung	gal growth observed			

2. If Armaflex is applied under UV-radiation the material must be protected within 3 days with a covering.

Technical Data - AF/Armaflex Class 0

- *1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.
- *2 •: Official supervision by independent institutes and /or test authorities o: Own in-factory quality monitoring

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. Installation instructions are available in our Armaflex installation manual. For some refrigerants the discharge temperature may exceed +110 °C, please consult our Customer Service Center for further information.

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