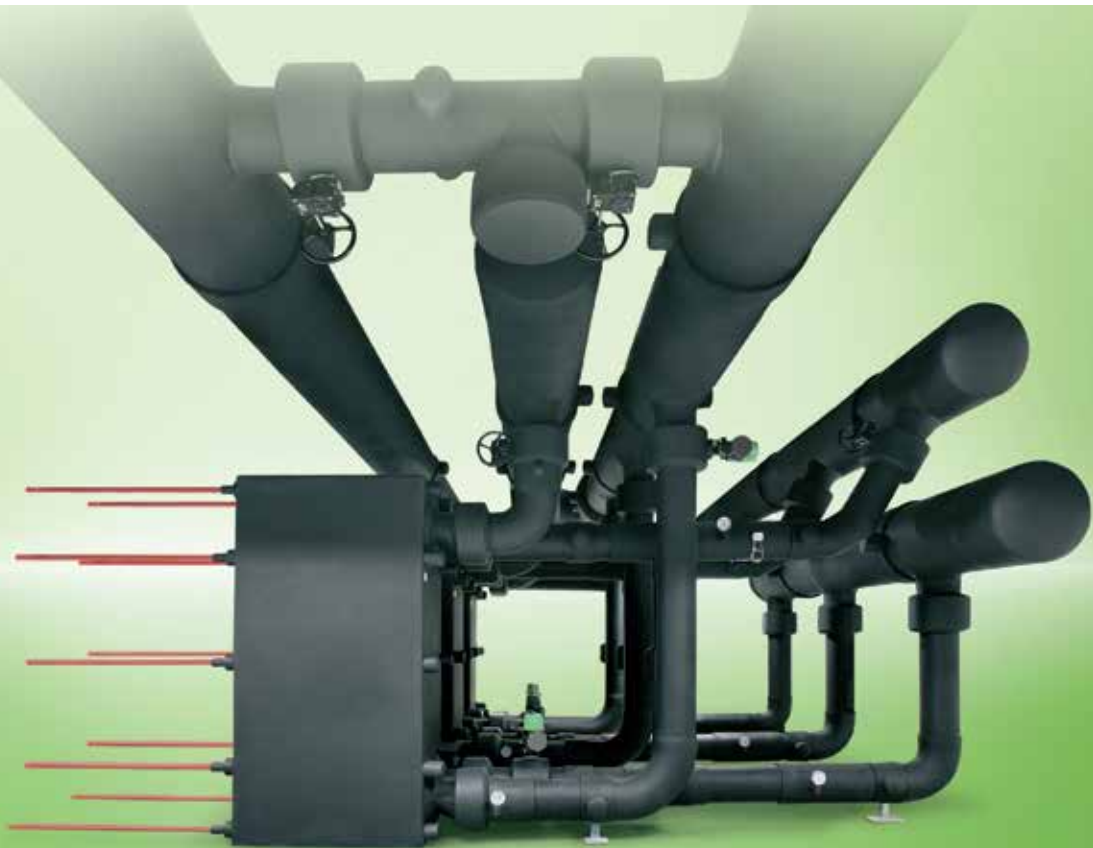


Armaflex®
Class 0

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 dust, fibre and formaldehyde



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.
Safety and Environment	Type III Environmental Product Declaration (EPD): Declaration number 4786944121.101.1, UL Environment
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 min. service temperature - 50 °C	(+ 85 °C if sheet or tape is glued to the object with its whole surface)	
Thermal Conductivity			
Thermal Conductivity	ϑ_m - 20 +/-0 + 20 + 40 [°C] $\lambda \leq 0.032$ 0.034 0.036 0.039 W/(m · K)	ASTM C518 EN ISO 8497 GB/T 10294 GB/T10296	
Water Vapor Diffusion Resistance			
Water Vapor Diffusion Resistance Factor	$\mu \geq 10,000$ Water Vapor Permeability $\leq 1.96 \times 10^{-11} \text{g}/(\text{m} \cdot \text{s} \cdot \text{Pa})$	DIN EN 13469 DIN EN 12086 GB/T 17146-1997	
Fire Performance			
Reaction to Fire	Surface Spread of Flame Class 1 Fire Performance according to Building Regulations Class 0 Burning Behavior of Building Materials & Products Class B1	BS 476 Part 7:1997 BS 476 Part 6:1989 GB 8624 - 2012	
Other Fire Class	Flammability V-0 FM 4924 Approved	UL94	
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 Product conforms to the requirements for building products under Fire Safety and Shelter Department, Singapore		
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	$\geq 70\%$	GB/T 6669-2001	
Water Absorption by Vacuum	$\leq 10\%$	GB/T 17794	
Chemical Resistance	Excellent resistance to ozone, oil and chemicals (consult product test list).		
Environmental Aspect	Zero ODP and GWP Singapore Green Building Product Certified: Very Good rating		

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. MICROBAN® is a registered trademark of Microban Products Company. GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

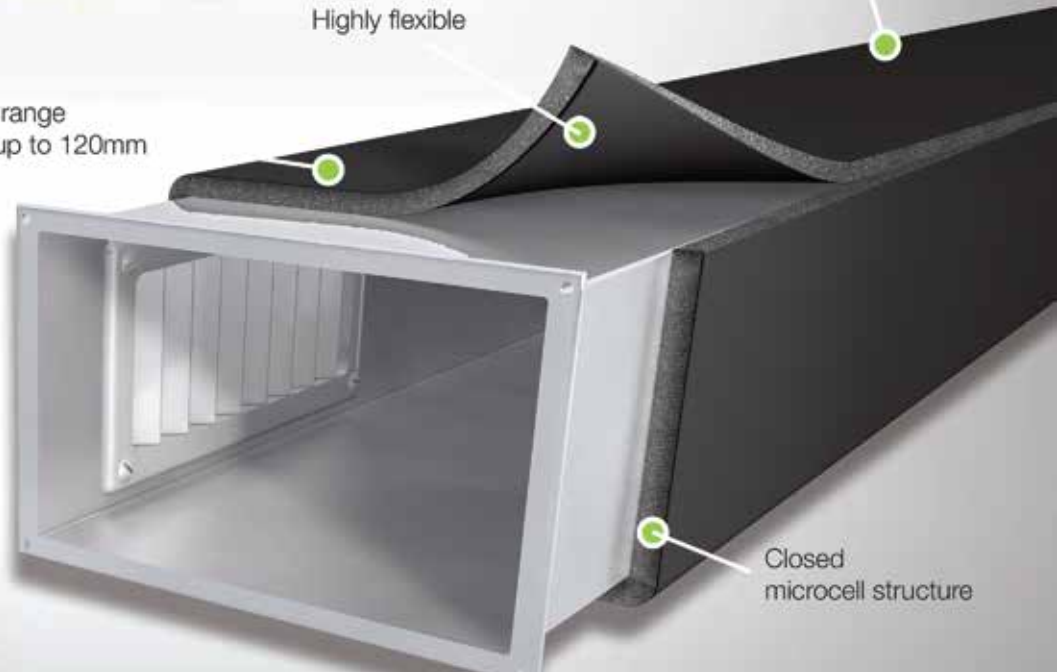


Highly energy efficient to give long-term energy savings $\lambda_{TC} \leq 0.034 \text{ W/(m} \cdot \text{K)}$



Armaflex® Class 0 sheet contains Microban® antimicrobial product protection for even better indoor air quality

FM approved for entire range of insulation thickness up to 120mm



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.