

THE FLEXIBLE INSULATION WITH ANTIMICROBIAL PROTECTION



- Reliable condensation control
- Contributes to indoor air quality
- Secure system solution
- Reduction of structure-borne noise
- Microban technology
- System warranty 10 years
- * Supervised performance: Euroclass (B/B_L-s3, d0), $\lambda_0 \circ_C \le 0,033$ W/(m \cdot K) and μ \geqslant 10.000







Technical Data - AF/Armaflex

Brief description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance, low thermal conductivity and built-in Microban® antimicrobial protection.					
Material type	Elastomeric foam based on synthetic rubber.					
Colour	black					
Material Special Information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.					
Applications	Insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning / refrigeration and process equipment to prevent condensation and save energy. Structure-borne noise reduction in service-water and waste-water installations.					
Special Features	Increasing insulation wall thicknesses for tubes ensures that the surface temperature is maintained as the pipe diameter is increased.					
Property	Value/Assessment			Test*1	Super- vision*2	Special Remark
Temperature Range						
Temperature Range	max. service temperature min. service temperature ¹	+ 110 °C -50 °C	(+ 85 °C if sheet or tape is glued to the object with its whole surface.) (-200 °C)	D 4594	0	Tested acc.to DIN EN 14706, DIN EN 14707 and DIN EN 14304
Thermal Conductivity						
Thermal	ϑ _m +/-0	°C	λ=	D 4841	Tested acc. to	
Conductivity	Tubes λ ≤ 0,033 (AF-1 to AF-4)	W/(m·K)	[33 + 0,1· $\vartheta_{\rm m}$ + 0,0008 · $\vartheta_{\rm m}^2]/1000$			DIN EN 12667 EN ISO 8497
	Tubes $\lambda \leq 0.036$ (AF-5 to AF-6)	W/(m·K)	$[36 + 0.1 \cdot \vartheta_{m} + 0.0008 \cdot \vartheta_{m}^{2}]/1000$			
	Sheets, $\lambda \leq 0,033$ strips, tape (AF-10MM to	W/(m·K)	[33 + 0,1· ϑ_{m} + 0,0008 · ϑ_{m} ?/1000			
	AF-32MM) Sheets $\lambda \leq 0.036$	W/(m·K)	$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$			
Water vapour diffusio	(AF-50MM					
Water vapour diffusion resistance	Sheets (AF-10MM to µ	≥	10.000	D 4532	0/●	Tested acc. to
	AF-32MM) and tubes (AF-1 to AF-4)			D 4002		EN 12086 and EN 13469
	Sheets (AF-50MM) and μ tubes (AF-5 to AF-6)	≥	7.000			
Fire performance						
Reaction to fire ²	Low flammability.			D 3334 D 4505	∘/•	Tested acc. to DIN EN 13823
	- ' '		0 (Z-56.269.3530)	D 1000		DIN EN ISO 11925-2
	Sheets B / B _L -s3, d0 (Z-56.269.768)					11925-2
Other Fire Class	Tape UL - approved	B-\$3,d0	(Z-56.269.768)	UL:	○/●	UL: Tested
Other Fire Class	FM - approved			D 4266 FM: D 3763	0,1	according to UL94, IEC 60695 and Car CSA-C.22.2 No0.17., UL 746C FM: Tested
	гілі - аррі очец					according to UBC26-3, Class No.4924
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames					
Fire resistance of structural element ³	Wall penetrations Ceiling penetrations	,	P-3849/5370 MPA BS) P-3849/5370 MPA BS)	D 2300		Tested acc. to DIN 4102, Part 11
Acoustic Performance		,				
Reduction of structure-borne sound transmission	Insulation effect	≤ 28 dB	(A)	D 3660		Tested acc. to DIN 52219 and DIN EN ISO 3822-
Weighted sound absorption coefficient α_w		≤ 0.45		D 4763		Tested acc. to EN ISO 354
Other technical featur	es					
Dimensions and tolerances	In accordance with EN 14304, tab	le 1		D 4594		Tested acc. to EN 822, EN 823, EN 13467
Storage & Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes, stripes: 1 year					Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C - 35 °C).

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Antimicrobial behaviour

In-built Microban® active antimicrobial protection: No fungal growth observed

D 4640 D 4641

Tested acc. to ASTM G21 and ASTM C 1338

- 1. For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.
- 2. The building materials classification is valid on metal or solid, mineral surfaces.
- 3. For further information, please contact our customer service
- *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. Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive must be used to guarantee proper installation. For some refrigerants the discharge temperature may exceed +110 °C, please consult our Customer Service Center for further information. For outside use, Armaflex should be protected with Armafinish Paint or Arma-Chek covering within 3 days of installation.