NH/Armaflex®

THE PROTECTIVE HALOGEN-FREE INSULATION TO REDUCE CORROSIVE EFFECTS AND SMOKE TOXICITY IN CASE OF FIRE

- Halogen-free
- Low amounts of smoke and acid gas in a fire
- Reduces toxicity and corrosive effects on people and equipment
- Prevents from stress corrosion cracking of stainless steel

- Fibre dust free material provides low thermal conductivity
- Excellent protection against water vapor diffusion
- IMO certified, UL and FM-approved
- Self-adhesive tubes comply with green building scheme

EPD Environmental Product Declaration

FM APPROVED

DNV

BUREAU VERITAS

Technical Data - NH/Armaflex

Brief description	Halogen free, flexible closed-cell insulation material with certification for use in marine environments, railway wagons and special building types.
Material type	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	dark grey / anthracite
Applications	Insulation / protection for pipes, air ducts, vessels (incl. Elbows, fittings, flanges etc.) of air-conditioning / refrigeration, ventilation and process equipment to prevent condensation and save energy.
Special Features	Without halogens (chloride, bromide) acc. to DIN / VDE 0472, part 815. Fulfils DIN 1988 Parts 200.
Safety and Environment	Type III Environmental Product Declaration (EPD): Declaration number "EPD-ARM-20150060-IBB1-DE", Institut Bauen und Umwelt e.V. (IBU)
Remarks	EC Certificate of Conformity no. 0543 of Güteschutzgemeinschaft Hartschaum e.V. , Celle

Property	Value/Assessment			Test*3	Super-vision*4	Special Remark
Temperature Range						
Temperature Range	max. service temperature	+110 °C	(+85 °C if sheet or tape is glued to the object with its whole surface.)	EU 5316	○/●	Tested according to EN 14706 EN 14707 EN 14304
	min. service temperature[1]	-50 °C				
Thermal Conductivity						
Thermal Conductivity	ϑ_m +/-0	°C	λ=	EU 5316	○/●	Declared acc. to EN ISO 13787 Tested according to EN 12667 EN ISO 8497
	λ ≤ 0,040	W/(m · K)	$[40 + 0{,}1 \cdot \vartheta_m + 0{,}0009 \cdot \vartheta_m^2]/1000$			
Water vapour diffusion resistance						
Water vapour diffusion resistance	μ	≥	2.000	EU 5316	○/●	Tested according to EN 12086 EN 13469
Fire performance						
Reaction to fire	tubes	D_L-s3, d0		EU 5316	○/●	Classified acc. to EN 13501-1 Tested according to EN 13823 and EN ISO 11925-2
	sheets, tape	E				
Other Fire Class	Ship Building	Bureau Veritas, Det Norske Veritas, Lloyds Register		Ship Building: D 5555 D 5348 EU 5475 EU 6111 N 5535 Railway: D 5378 D 5379 D 5395 D 5396 UL: D 3763 FM: D 4266		Ship Building: Classified acc. to MED 96/98/EC MODULE D Tested acc.to IMO Part 2 and 5 Railway:Classified acc. to DIN 5510-2 Tested acc. to DIN 54837 UL:Tested acc. to UL94, IEC 60695 and Can/CSA-C.22.2 No.0.17., UL 746C FM:Tested acc. to UBC26-3, Class No.4924
	Railway	Exova Brandhaus				
	UL - approved	HF-1				
	FM - approved					
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames					
Other technical features						
Dimensions and tolerances	In accordance with EN 14304, table 1				○/●	Tested acc. to EN 822, EN 823, EN 13467
Chemical behaviour	Resistant against commonly used building materials like concrete, lime, gypsum, cement.					
Storage & Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year					Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).
AGI Designation Code	tubes 36.12.04.07.01 sheets 36.07.04.07.01					

1. For temperatures below -50 °C please contact our sales representatives to request for the corresponding technical information.

*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
○: 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 sales representatives before insulating stainless steels. For some refrigerants the discharge temperature may exceed +110 °C, please consult our sales representatives for further information. Armaflex 520 or Armaflex HT 625 Adhesive must be used to guarantee proper installation. For outside use, Armaflex should be protected with a suitable outer covering within 3 days of installation.

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NH/Armaflex tubes

Length 2,0 m

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
10	**NH-09X010**	266	**NH-13X010**	156
12	**NH-09X012**	200	**NH-13X012**	162
15	**NH-09X015**	192	**NH-13X015**	120
18	**NH-09X018**	166	**NH-13X018**	112
22	**NH-09X022**	136	**NH-13X022**	98
28	**NH-09X028**	98	**NH-13X028**	78
35	**NH-09X035**	76	**NH-13X035**	56
42	**NH-09X042**	60	**NH-13X042**	48
48	**NH-09X048**	50	**NH-13X048**	40
54	-	-	**NH-13X054**	34
60	-	-	**NH-13X060**	32
76	-	-	**NH-13X076**	22
89	-	-	**NH-13X089**	18

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness		25,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
15	**NH-19X015**	78	**NH-25X015**	40
18	**NH-19X018**	60	**NH-25X018**	40
22	**NH-19X022**	56	**NH-25X022**	40
28	**NH-19X028**	48	**NH-25X028**	32
35	**NH-19X035**	36	**NH-25X035**	24
42	**NH-19X042**	32	**NH-25X042**	22
48	**NH-19X048**	24	**NH-25X048**	18
54	**NH-19X054**	24	**NH-25X054**	16
60	**NH-19X060**	18	**NH-25X060**	12
76	**NH-19X076**	12	**NH-25X076**	10
89	**NH-19X089**	12	**NH-25X089**	8
114	**NH-19X114**	8	**NH-25X114** ●	6

Length tolerance for tubes	± 1,5 %
Thickness tolerance	3 - 6 mm ± 1,0 mm 9 - 13 mm ± 1,5 mm >19 mm ± 2,5 mm

● Item not on stock. Delivery on request.

NH/Armaflex tubes self-adhesive

Pipe max. Outside-Ø [mm]	13,0 mm insulation thickness		19,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
15	**NH-13X015-A**	120	**NH-19X015-A**	78
18	**NH-13X018-A**	112	**NH-19X018-A**	60
22	**NH-13X022-A**	98	**NH-19X022-A**	56
28	**NH-13X028-A**	78	**NH-19X028-A**	48
35	**NH-13X035-A**	56	**NH-19X035-A**	36
42	**NH-13X042-A**	48	**NH-19X042-A**	32
48	**NH-13X048-A**	40	**NH-19X048-A**	24
54	**NH-13X054-A**	34	**NH-19X054-A**	24
60	**NH-13X060-A**	32	**NH-19X060-A**	18
76	-	-	**NH-19X076-A**	12
89	-	-	**NH-19X089-A**	12

Length tolerance for tubes	± 1,5 %
Thickness tolerance	9 - 13 mm ± 1,5 mm >19 mm ± 2,5 mm

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NH/Armaflex sheets endless

Width 1,0 m

Code	Insulation thickness [mm]	Roll length [m]	m²/carton
NH-03-99/E	3,0	30	30
NH-06-99/E	6,0	15	15
NH-10-99/E	10,0	10	10
NH-13-99/E	13,0	8	8
NH-19-99/E	19,0	6	6
NH-25-99/E	25,0	4	4
NH-32-99/E	32,0	3	3

Length tolerance for sheets	± 1,5 %
Thickness tolerance for sheets	3-6 mm ± 1,0 mm 10-19 mm ± 1,5 mm 25-32 mm ± 2,0 mm

NH/Armaflex sheets endless self-adhesive

Width 1,0 m

Code	Insulation thickness [mm]	Roll length [m]	m²/carton
NH-03-99/EA	3,0	30	30
NH-06-99/EA	6,0	15	15
NH-10-99/EA	10,0	10	10
NH-13-99/EA	13,0	8	8
NH-19-99/EA	19,0	6	6
NH-25-99/EA	25,0	4	4
NH-32-99/EA	32,0	3	3

Length tolerance for sheets	± 1,5 %
Thickness tolerance for sheets	3-6 mm ± 1,0 mm 10-19 mm ± 1,5 mm 25-32 mm ± 2,0 mm

NH/Armaflex tapes self-adhesive

Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
NH-TAPE	50,0	15	3	12

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