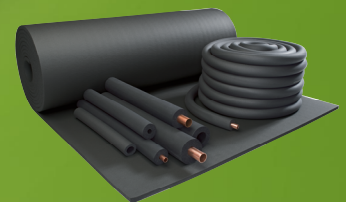


NH/Armaflex®

The halogen-free solution for environments with specific safety requirements



- Halogen & PVC free
- Indicated for use in military, shipboards, trains and other public transportation vehicles
- Dust & fibre free
- Closed cell

- UL and FM-approved
- IMO certified
- Water vapour diffusion resistance factor $\mu \geq 2000$
- $\lambda_{0\text{ }^\circ\text{C}} \leq 0.040 \text{ W}/(\text{m} \cdot \text{K})$



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.				
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. Fulfills DIN 1988 Parts 2 and 7.				
Property	Value/Assessment	Test^{*1}	Super- vision^{*2}	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.)		Tested according to EN 14706, EN 14707, EN 14304
	min. service temperature ¹	-50 °C	(-200 °C)		
Thermal Conductivity					
Thermal Conductivity	ϑ_r	0	[°C]	$\lambda =$	D 4788 D 4810
	$\lambda \leq$	0,040	W/(m · K)	$[40 + 0,1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000$	o
Tested according to EN 12667 EN ISO 8497					
Water vapour diffusion resistance					
Water vapour diffusion resistance	μ		\geq	2.000	D 4304
o					
Tested according to EN 12086 EN 13469					
Fire performance					
Reaction to fire	moderately flammable		B2		D 3781
o					
Tested according to DIN 4102					
Other Fire Class	Ship Building	Bureau Veritas, Det Norske Veritas		Ship Building: D 4200 / D 2563 / N 2778	o/● Tested according to: Ship Building: acc. to IMO A653(16) Railway: acc. to DIN 54837 ISO 5659 (DIN 5510-2) UL: acc. to UL94, IEC 60695 and Can/CSA-C.22.2 No0.17., UL 746C FM: acc. to UBC26-3, Class No.4924
	Railway	Exova Brandhaus		Railway: D 4675 / D 4676	
	UL - approved			UL: D 3763	
	FM - approved			FM: D 4266	
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames				
Other technical features					
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).

1. For temperatures below -50 °C please contact our Customer Service Center 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
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.

NH/Armaflex tubes

Length 2,0 m, Color dark grey

Pipe max. Outside-Ø [mm]	9 mm insulation thickness		13 mm insulation thickness	
	Code	m/carton	Code	m/carton
10	NH-09X010	266	NH-13X010	172
12	NH-09X012	234	NH-13X012	162
15	NH-09X015	192	NH-13X015	136
18	NH-09X018	166	NH-13X018	118
22	NH-09X022	136	NH-13X022	98
28	NH-09X028	98	NH-13X028	78
35	NH-09X035	76	NH-13X035	58
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 mm insulation thickness		25 mm insulation thickness	
	Code	m/carton	Code	m/carton
10	NH-19X010	98	-	-
12	NH-19X012	88	-	-
15	NH-19X015	78	-	-
18	NH-19X018	72	NH-25X018	50
22	NH-19X022	64	NH-25X022	42
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

Length tolerance for tubes

± 1,5 %

Thickness tolerance

9 - 13 mm ± 1,5 mm

19 -25 mm ± 2,0 mm

• Are not on stock. Delivery on request.

NH/Armaflex sheets endless

Width 1,0 m, Color dark grey

Code	Roll length [m]	Thickness [mm]	m ² /carton
NH-06-99/E	15	6,0	15
NH-10-99/E	10	10,0	10
NH-13-99/E	8	13,0	8
NH-19-99/E	6	19,0	6
NH-25-99/E	4	25,0	4
NH-32-99/E	3	32,0	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, Color dark grey

Code	Roll length [m]	Thickness [mm]	m ² /carton
NH-03-99/EA	30	3,0	30
NH-06-99/EA	15	6,0	15
NH-10-99/EA	10	10,0	10
NH-13-99/EA	8	13,0	8
NH-19-99/EA	6	19,0	6
NH-25-99/EA	4	25,0	4
NH-32-99/EA	3	32,0	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



Color dark grey

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