

FLEXIBLE HALOGEN-FREE TECHNOLOGY

NH/ArmaFlex®

Halogen-free flexible elastomeric foam insulation, the right insulation for stainless steel pipes

// Reliable solution for shipyards

// Professional insulation for clean rooms

// Prevents stress corrosion cracking when installed on stainless steel











TECHNICAL DATA - NH/ARMAFLEX

Brief description	NH/ArmaFlex is a halogen-free, flexible closed-cell insulation material certified for use in marine and railway applications and also in special building types.			
Material type	Factory-made flexible elastomeric foam (FEF), based on synthetic rubber, according to to EN 14304.			
Colour	Dark grey.			
Special features	Does not contain halogens (chlo	oride, bromide) according to	DIN / VDE 0472, part 815. Fulfills DIN 1988 Part	200.
Applications	Insulation of pipes, air ducts, vessels (including elbows, fittings, flanges, etc.) in air conditioning, refrigeration, ventilation and process equipment to prevent condensation and save energy.			
Installation	Please refer to the installation instructions from Armacell for NH/ArmaFlex. Please request a copy from the Technical department if you have not received this.			
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on www.armacell.com/DoP.			ww.armacell.com/DoP.
Property	Value/Assessment Standard/Test method			
Temperature range				
Service temperature	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 and EN
	Min. service temperature ¹	-50 °C		14304.
Thermal conductivity				
	θm +/-0			Declared according to EN
	λ < 0.040 λ = [40 +	$0.1 \cdot \theta_{m} + 0.0009 \cdot \theta_{m}^{2}] / 100$	0	ISO 13787. Tested according to EN 12667, EN ISO 8497.
Water vapour diffusion resistar	ce			
Water vapour diffusion resistance factor	µ ≥ 2,000			Tested according to EN 12086, EN 13469.
Fire performance & approvals				•
Reaction to fire	Tubes and open tubes		D _L -s2, d0	Classified according to EN 13501-1. Tested according to
	Sheets, tape		E	EN 13823 and EN ISO 11925 2.
Others	Marine application: Low flame	Classified according to MED 96/98/EC MODULE D and B. Testing according to IMO Part 5 and Annex 2 Item 2.2		
	UL-approved: HF1	Tested according to UL94, IEC 60695 and Can/CSA- C.22.2 No.0.17., UL 746C		
Practical fire behaviour	Self-extinguishing, does not dri	ip, does not spread flames.		
Other technical features				
Dimensions and tolerances	In accordance with EN 14304, table 1 Tested according to EN 822, EN 823, EN 1346			Tested according to EN 822, EN 823, EN 13467
Chemical behaviour	Resistant against commonly used building materials like concrete, lime, gypsum and cement.			
Environmental aspect	Type III Environmental Product Declaration (EPD): Declaration number EPD-ARM-20150106-IBB1-DE, Institut Bauen und Umwelt e.V. (IBU).			
Storage	Self-adhesive tubes, self-adhesive sheets and self-adhesive tape: 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 Customer Service Center to request for the corresponding technical information.

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 our Technical department 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 Centre before insulating stainless steel. For some refrigerants, the discharge temperature may exceed +110 °C, please consult our Customer Service Centre for further information. ArmaFlex 520 or ArmaFlex HT625 adhesives should be used. For outside use, ArmaFlex should be protected with a suitable outer covering within 3 days of installation.

Tubes (length: 2.0m)

	9mm		13mm		19mm		25mm	Dina massimus
Item	Carton content	Pipe maximum outer diameter						
	[m]		[m]		[m]		[m]	[mm]
NH-09X010	266	NH-13X010	156					10
NH-09X012	200	NH-13X012	162	•				12
NH-09X015	192	NH-13X015	120	NH-19X015	78	NH-25X015	40	15
NH-09X018	166	NH-13X018	112	NH-19X018	60	NH-25X018	40	18
NH-09X022	136	NH-13X022	98	NH-19X022	56	NH-25X022	40	22
NH-09X028	98	NH-13X028	78	NH-19X028	48	NH-25X028	32	28
NH-09X035	76	NH-13X035	56	NH-19X035	36	NH-25X035	24	35
NH-09X042	60	NH-13X042	48	NH-19X042	32	NH-25X042	22	42
NH-09X048	50	NH-13X048	40	NH-19X048	24	NH-25X048	18	48
		NH-13X054	34	NH-19X054	24	NH-25X054	16	54
		NH-13X060	32	NH-19X060	18	NH-25X060	12	60
		NH-13X076	22	NH-19X076	12	NH-25X076	10	76
		NH-13X089	18	NH-19X089	12	NH-25X089	8	89
				NH-19X114	8	NH-25X114	6	114
						NH-25X125	4	125

*Made to order. Minimum order quantities and different lead times may apply.

Self-adhesive option available upon request. Minimum order quantities and different lead times may apply.

Other information

Length tolerance	± 1.5%	
Thickness tolerance	3mm - 6mm: ± 1.0mm	
	9mm - 13mm: ± 1.5mm	
	>19mm: ± 2.5mm	

Rolls (Width: 1.0m)

Item	Insulation thickness	Length	Carton content
	[mm]	[m]	[sqm]
NH-03-99/E	3	30	30
NH-06-99/E	6	15	15
NH-10-99/E	10	10	10
NH-13-99/E	13	8	8
NH-19-99/E	19	6	6
NH-25-99/E	25	4	4
NH-32-99/E	32	3	3

*Made to order. Minimum order quantities and different lead times may apply.

Self-adhesive option available upon request. Minimum order quantities and different lead times may apply.

Other information

Length tolerance	± 1.5%		
Thickness tolerance	3mm - 6mm: ± 1.0mm		
	10mm - 19mm: ± 1.5mm		
	25 - 32mm: ± 2.0mm		

Accessories

Item	Carton content	Article description
NH-TAPE	12 rolls	NH/ArmaFlex insulation tape (3mm thickness x 50mm width x 15m)





All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

© Armacell, 2019. [®] and [™] are trademarks of the Armacell Group and is registered in the European Union, United States of America, and other countries.

00231 | NH/ArmaFlex | ArmaFlex | TDS | 112019 | APAC | EN MASTEF

ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,100 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

