



NH/ARMAFLEX SMART

INSTALL IT. TRUST IT



- Halogen-free insulation without compromise
- Great UV- and aging resistance
- Protects assets and people
- Easy to install

## Technical Data - NH/ArmaFlex Smart

Brief description	New generation halogen free, flexible closed-cell insulation material with certification for use in any building and construction types.
Material type	Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	black / anthracite
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, 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.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a>

Property	Value/Assessment	Test <sup>1</sup>	Super-vision <sup>2</sup>	Special Remark	
<b>Temperature Range</b>					
Temperature Range	max. service temperature      +110 °C  min. service temperature <sup>1</sup> -50 °C	(+85 °C if sheet or tape is glued to the object with its whole surface.)  EU 7550	o/●	Tested according to EN 14706 EN 14707 EN 14304	
<b>Thermal Conductivity</b>					
Thermal Conductivity	$\vartheta_m$ +/-0                      °C $\lambda=$	EU 7550	o/●	Declared acc. to EN ISO 13787 Tested according to EN 12667 EN ISO 8497	
	$\lambda \leq 0,040$ W/(m · K) $[40 + 0,1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000$				
<b>Water vapour diffusion resistance</b>					
Water vapour diffusion resistance	$\mu \geq 2.000$	EU 7550	o/●	Tested according to EN 12086 EN 13469	
<b>Fire performance</b>					
Reaction to fire	Tubes, Tubes self-adhesive, open tubes (up to 300 min insulated $\varnothing_a$ )  sheets, tape	D <sub>L</sub> -s2, d0  E	EU 7550	o/●	Classified acc. to EN 13501-1 Tested according to EN 13823 and EN ISO 11925-2
Other Fire Class	UL approved	HBF	EU 7369	o/●	
Practical Fire Behaviour	self-extinguishing, does not drip, does not spread flames				
Dimensions and tolerances	In accordance with EN 14304, table 1		EU 7550	o/●	Tested acc. to EN 822, EN 823, EN 13467
Chemical behaviour	Resistant against commonly used building materials like concrete, lime, gypsum, cement.				
UV resistance <sup>2</sup>	High		TB 142	o	Tested in accordance to EN ISO 4892
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.

2. With outdoor applications, in certain circumstances the material may experience a discoloration of the surface and some minor surface cracks will appear. The visual appearance however has no influence on the physical properties of the material, such as thermal conductivity and behaviour in case of fire.

\*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. 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 a suitable outer covering within 3 days of installation.



# NH/ArmaFlex Smart tubes



Length 2,0 m, Color black

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			13,0 mm insulation thickness		
	Code	m/carton	€/m	Code	m/carton	€/m
10	NHS-09X010 ●	192	xxx	NHS-13X010 ●	140	xxx
12	NHS-09X012 ●	172	xxx	NHS-13X012 ●	130	xxx
15	NHS-09X015 ●	144	xxx	NHS-13X015	112	xxx
18	NHS-09X018 ●	130	xxx	NHS-13X018	98	xxx
22	NHS-09X022 ●	108	xxx	NHS-13X022	84	xxx
28	NHS-09X028 ●	82	xxx	NHS-13X028	64	xxx
35	NHS-09X035 ●	60	xxx	NHS-13X035	50	xxx
42	NHS-09X042 ●	50	xxx	NHS-13X042	40	xxx
48	NHS-09X048 ●	42	xxx	NHS-13X048	32	xxx
54	-	-	-	NHS-13X054	32	xxx
60	-	-	-	NHS-13X060	28	xxx
76	-	-	-	NHS-13X076	24	xxx
89	-	-	-	NHS-13X089	18	xxx

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness			25,0 mm insulation thickness		
	Code	m/carton	€/m	Code	m/carton	€/m
12	-	-	-	NHS-25X012 ●	50	xxx
15	NHS-19X015 ●	64	xxx	NHS-25X015 ●	40	xxx
18	NHS-19X018 ●	58	xxx	NHS-25X018 ●	36	xxx
22	NHS-19X022	50	xxx	NHS-25X022	36	xxx
28	NHS-19X028	48	xxx	NHS-25X028	32	xxx
35	NHS-19X035	32	xxx	NHS-25X035	24	xxx
42	NHS-19X042	24	xxx	NHS-25X042	20	xxx
48	NHS-19X048	22	xxx	NHS-25X048	16	xxx
54	NHS-19X054	18	xxx	NHS-25X054	16	xxx
60	NHS-19X060	16	xxx	NHS-25X060	16	xxx
76	NHS-19X076	18	xxx	NHS-25X076	12	xxx
89	NHS-19X089	16	xxx	NHS-25X089	12	xxx
114	NHS-19X114 ●	8	xxx	NHS-25X114	6	xxx
125	-	-	-	NHS-25X125	4	xxx

Pipe max. Outside-Ø [mm]	32,0 mm insulation thickness					
	Code	m/carton	€/m			
15	NHS-32X015	32	xxx	-	-	-
18	NHS-32X018	30	xxx	-	-	-
22	NHS-32X022	28	xxx	-	-	-
28	NHS-32X028	24	xxx	-	-	-
35	NHS-32X035	18	xxx	-	-	-
42	NHS-32X042	16	xxx	-	-	-
48	NHS-32X048	12	xxx	-	-	-
54	NHS-32X054	12	xxx	-	-	-
60	NHS-32X060	10	xxx	-	-	-
76	NHS-32X076	8	xxx	-	-	-
89	NHS-32X089	6	xxx	-	-	-
108	NHS-32X108	4	xxx	-	-	-
114	NHS-32X114	4	xxx	-	-	-
125	NHS-32X125	4	xxx	-	-	-
140	NHS-32X140	4	xxx	-	-	-

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 in stock. Delivery on request. [MTO]

## NH/ArmaFlex Smart open tubes

Code	Insulation thickness [mm]	Roll length [m]	Width [m]	m <sup>2</sup> /carton	€/m <sup>2</sup>
NHS-13X300 ●	13,0	8	0,953	7,62	xxx
NHS-19X300 ●	19,0	6	0,953	5,72	xxx
NHS-25X300 ●	25,0	4	0,953	3,81	xxx
NHS-32X300 ●	32,0	3	0,953	2,86	xxx

**Length tolerance for tubes**

+/- 1,5 %

**Thickness tolerance**

13 mm: ±1,5 mm  
19 -25 mm: ±2,5 mm  
32 mm: ±3,0 mm

**Reaction to fire**

Fire classification D<sub>L</sub>-s2, d0 valid only when installed on linear applications Ø ≤ 300 mm (pipe & insulation).

● Item not in stock. Delivery on request. [MTO]

## NH/ArmaFlex Smart sheets endless



Width 1,0 m

Code	Insulation thickness [mm]	Roll length [m]	m <sup>2</sup> /carton	€/m <sup>2</sup>
NHS-03-99/E ●	3,0	30	30	xxx
NHS-06-99/E	6,0	15	15	xxx
NHS-10-99/E	10,0	10	10	xxx
NHS-13-99/E	13,0	8	8	xxx
NHS-19-99/E	19,0	6	6	xxx
NHS-25-99/E	25,0	4	4	xxx
NHS-32-99/E	32,0	3	3	xxx

**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

● Item not in stock. Delivery on request. [MTO]

## NH/ArmaFlex Smart sheets endless self-adhesive



Width 1,0 m

Code	Insulation thickness [mm]	Roll length [m]	m <sup>2</sup> /carton	€/m <sup>2</sup>
NHS-03-99/EA	3,0	30	30	xxx
NHS-06-99/EA	6,0	15	15	xxx
NHS-10-99/EA	10,0	10	10	xxx
NHS-13-99/EA	13,0	8	8	xxx
NHS-19-99/EA	19,0	6	6	xxx
NHS-25-99/EA	25,0	4	4	xxx
NHS-32-99/EA	32,0	3	3	xxx

**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 Smart tapes self-adhesive



Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton	€/roll
NHS-TAPE	50,0	15	3	12	xxx

**Length tolerance for tubes**

± 1,5 %

**Thickness tolerance**

9 - 13 mm ± 1,5 mm  
>19 mm ± 2,5 mm

## NH/ArmaFlex Smart adhesive



Code	Article description	Pieces/carton	€/pc
<b>ADH750/0,5</b>	ArmaFlex 750 Adhesive, 0,5 Litre	12	xxx

