



NH/Armaflex[®]

HALOGEN-FREE INSULATION

Specially developed to minimise smoke and toxic emissions in the event of fire.




**The protection of the environment
is our biggest challenge**

Armacell accept this responsibility, by developing products for greater energy conservation and by evaluating the impact on the environment of the whole production process through to sales within our company. Also, ideas and suggestions from daily practical experience help us to achieve these objectives.

The demand for environmentally-friendly insulation material with minimal smoke and toxic emissions in the event of fire, is gaining importance. NH/Armaflex meets this demand.

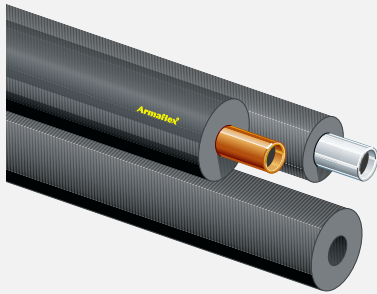
Halogen=Free
CFC=Free
 $\lambda_{0^{\circ}} = 0.040$



NH/Armaflex special halogen-free insulation has been specially developed to reduce smoke density to a minimum in the event of fire and to eliminate as far as possible any toxic contamination such as dioxins and furanes. NH/Armaflex contains no flame proofing agents, PVC, CFC or HCFC's and when it is exposed to severe fire, it will burn like any other organic material, however, the flammable components do not contain any corrosive or decomposing elements. NH/Armaflex provides protection against diffusion of water vapour, as a closed-cell material, and features all the properties which you can expect from a flexible elastomeric insulation, such as low thermal conductivity, dust and fibre free.

Application: insulation for pipework, tanks and air ducts, for prevention of stress corrosion in stainless steel pipes and particularly in the following fields: NATO marine sector, general ship-building off shore, rail-transport, computer rooms and other areas, where chlorine-free materials are required.





The competitive advantages of specifying NH/Armaflex

Like all elastomeric products from Armacell, NH/Armaflex is easy to install, safe to handle and does not require any additional covering as a vapour barrier.

- No halogens, i.e. no chlorides or bromides
- Contains no CFC, HCFC or PVC
- Good flexibility at lower temperatures
- Does not release any dioxins or furanes
- Does not produce burning droplets in the event of fire
- Low smoke development under both burning and smouldering conditions

Product Range:

Tube



Continuous Sheet



Sheet, self-adhesive



We're investing in the future

Armacell's research and development has always received substantial investment and the research not only improves μ and λ values, but we are continually developing new products. Quality assurance and health & safety issues are becoming increasingly more important. We develop environmentally-friendly product processing, test various material compositions and research options for improved recycling.

These are investments which both support the preservation of our environment and form the basis for ecologically-valuable products.

Accessories

Armaflex 520 Adhesive

A low viscosity formulation for use with Armaflex, Armafix Pipe Supports and Armaload to provide a seal with a performance at least equal to the materials.

Armaflex Gluemaster

Suitable for use with Armaflex 520 Adhesive and it significantly increases the speed of installation. Replacement brushes are available.

Armaflex Cleaner

Use to clean Armaflex insulation and other surfaces, as necessary, prior to

the application of adhesive or paint, also to clean Armaflex adhesive from brushes and other equipment.

Armafinish FR Paint

Protective water-based paint for use on Armaflex installed outdoors. Provides a tough flexible film which is resistant to UV radiation, ozone and many aggressive chemicals.

Armacell Toolkit

A durable container with three knives and a sharpening stone. A knife for slitting, one for sheet and a large one for cutting tube.

Armaflex Slitting Knife

A useful tool for slitting Armaflex tube in one quick, simple operation. Replacement blades are available.

Armaload

Flexible high density insulation with good load bearing properties, for use on unistrut pipe supports to avoid point loading.

NH/Armaflex Insulating Tape

A self-adhesive tape, 3mm minimum thickness, which may be used in non-critical areas having a max. surface temperature of 85°C.

Product description: Thermal insulation material with closed cell structure and high flexibility

Material: Foamed synthetic elastomer without chloride or bromide ions

Applications: NATO marine sector, general ship-building, off-shore, rail-transport, computer rooms and other areas, where chlorine-free materials are required.

Product range: Tubes in 9mm, 13mm, 19mm and 25mm wall thickness for pipe sizes 10-89mm OD. Sheets in 6mm, 10mm, 13mm, 19mm and 25mm wall thickness all 1m wide.

Throughout the world Armacell products are at work in all types of industries and in all types of climates. We are confident therefore, that we have the right product available to suit each specific need.

Property	Value	Test Method
Temperature Range		
Maximum	+105°C	* For lower temperatures down to -200°C please consult Customer Services
Flat surfaces and tape	+85°C	
Minimum	-50°C (-200°C*)	
Thermal conductivity		
at 0°C	0.040 W/(m.K)	DIN 52 612
at 40°C	0.045 W/(m.K)	DIN 52 613
Water Vapour Permeability		
Moisture resistance factor μ	$\geq 2,000$	DIN 52 615
Fire performance		
1. Fire rating	Hard combustible - B1; does not drip - Tr1	ÖNORM B3800 Part 1
2. Surface spread of flame	Class 1	BS 476 Part 7
3. Smoke development	Dm (Corr) smouldering Index 68 Dm (Corr) flaming Index 60	ASTM E 662 - 79 NBS for 13mm
4. Limited Oxygen Index	32%	ASTM D 2863 - 77
5. Behaviour in fire	Self extinguishing, does not spread flame, does not drip	
6. Certificates:	Lloyd's Register of Shipping, London SAS, F020001 ABS 99/DS1153/X (includes factory audit)	
Outdoor applications should be painted with Armafinish FR paint to the recommended thickness. Two or more coats may be required, or use an Arma-Chek system covering.		

Please note: Stress Corrosion Cracking. Austenitic stainless steel types 304 and 316 can be sensitive to corrosive attack from soluble inorganic chloride ions in the presence of oxygen and moisture. Chloride ions will always be present in the normal building site environment and may be deposited onto the surface when handling, fitting and installing – but NH/Armaflex will not contribute to any chloride ions on the surface.

BS 5970 Section 8 recommends that prior to fitting any insulation, a barrier of aluminium foil of not less than 0.06mm thick is applied to austenitic stainless steel surfaces.

See www.armacell.com - ArmaPlus Service - Technical Library - Technical Information - Page C1.13

NH/Armaflex is available in black, 2m length tubes in the following sizes								
Copper Tube		Iron & Steel Pipe			F	H	M	R
Nom OD mm	Min ID mm	NB in	Nom OD mm	Min ID mm	Nominal Thickness 9 mm	Nominal Thickness 13 mm	Nominal Thickness 19 mm	Nominal Thickness 25 mm
					Ref.	Ref.	Ref.	Ref.
10	8	1/8	10.2	6	09010 NH	13010 NH	19010 NH	–
12	10				09012 NH	13012 NH	19012 NH	–
15	10	1/4	13.5	8	09015 NH	13015 NH	19015 NH	25015 NH
18	15	3/8	17.2	10	09018 NH	13018 NH	19018 NH	25018 NH
22	20	1/2	21.3	18	09022 NH	13022 NH	19022 NH	25022 NH
28	25	3/4	26.9	20	09028 NH	13028 NH	19028 NH	25028 NH
35	32	1	33.7	25	09035 NH	13035 NH	19035 NH	25035 NH
42	40	1 1/4	42.4	32	09042 NH	13042 NH	19042 NH	25042 NH
		1 1/2	48.3	40	09048 NH	13048 NH	19048 NH	25048 NH
54	50		54.0		09054 NH	13054 NH	19054 NH	25054 NH
		2	60.3	50	09060 NH	13060 NH	19060 NH	25060 NH
76	65	2 1/2	76.1	65	09076 NH	13076 NH	19076 NH	25076 NH
89	80	3	89	80	09089 NH	13089 NH	19089 NH	25089 NH

Sheet sizes	
Continuous Sheet & Continuous Self-Adhesive Sheet	
Nominal Thickness mm	Roll Size mm
6	1,000 x 15,000
10	1,000 x 10,000
13	1,000 x 8,000
19	1,000 x 6,000
25	1,000 x 4,000

NB. All delivery quoted on request. Self-adhesive sheet subject to minimum order quantity.

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended by the recipient.