HALOGEN-FREE INSULATION

NH ArmaFlex

NH ArmaFlex[®] is the halogen-free, flexible elastomeric insulation material. Specify for applications requiring protection against toxic smoke containing chlorine, bromine or halogen gasses.

- // Protective, halogen-free performance in flexible tubes, sheets and rolls
- // Protects personnel and sensitive equipment
- // Insulation for stainless steel applications below 250° F

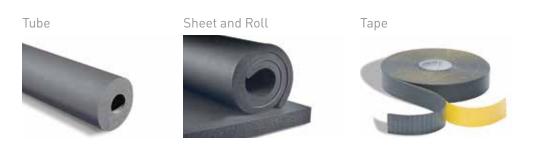
www.armacell.us



NH/ArmaFlex

Engineered for New and Existing Pipework

NH ArmaFlex[®] is a nonhalogen elastomeric insulation developed for condensation control in environments that require specific protection against smoke containing acid gases. It is the first nonhalogen flexible insulation introduced for use to protect personnel or sensitive electronic equipment from the effects of chlorines, bromines and halogen gasses.



Learn more.

MOISTURE RESISTANCE

The closed cell structure of NH ArmaFlex resists moisture ingress and controls condensation. For most applications no vapor retarder is required. An additional vapor retarder may be necessary when exposed to continuous high humidity.

APPLICATIONS

NH ArmaFlex is used as insulation and protection for piping, tanks, and air ducts, and to prevent stress corrosion with stainless steel pipes and other areas where nonhalogenated or chlorine-free materials may be required.

INSTALLATION

Supplied in tube, sheet and roll form, NH ArmaFlex is easy to snap on or sleeve over pipework for new or existing piping applications. In sheet form, NH ArmaFlex installs quickly on large flat or curved surfaces using ArmaFlex 520, 520 Black, 520

BLV or Low VOC Spray Contact Adhesive. For pipes and fitting covers, only seams and joints require adhesive. See the ArmaFlex Installation Manual for details.

Description

NH ArmaFlex is a nonhalogen elastomeric insulation developed for sweat control in environments that require specific protection against smoke containing acid gases. NH ArmaFlex is an engineered closed-cell material that eliminates the toxic gases that may threaten personnel and sensitive electronic equipment including effects from chlorines, bromines or PVC. The closed cell structure makes NH ArmaFlex an efficient thermal insulation and provides resistance to water vapor migration. For most applications, NH ArmaFlex requires no supplemental vapor retarder.

Approvals, Certifications, Compliances

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 Manufa 	actured without CFCs, HFCs, HCFCs, PBDEs,		• NH Sheet and Roll is 3rd party certified by FM Approvals through 1"
or Forr	naldehyde.	ASTM C 534 Type II (sheet) Grade 3	thickness.
 GREEN 	GUARD Gold Certified.		 All Armacell facilities in North America are ISO 9001 certified

Typical Properties

Specifications	Values	Test Method	
Thermal Conductivity: Btu • in/h • ft ² • °F	(W/mK)		
32°F mean temperature (0°C) 75°F mean temperature (24°C) 90°F mean temperature (32°C)	0.248 (0.036) 0.27 (0.039) 0.282 (0.041)	ASTM C 177 or C 518	
Water Vapor Permeability: Perm-in. [Kg/(s∙m•Pa]]	0.05 [0.725 x 10 ⁻¹³]	ASTM E 96, Procedure A	
Mold Growth: Fungi Resistance:	UL181 ASTM G21/C1338	Meets requirements Meets requirements	
Water Absorption, % by Volume:	0.2%	ASTM C 209 or ASTM C 1763	
Maximum Service Temperature:	250°F (120°C)	-	
Minimum Service Temperature: (1)	-297°F (-183°C) ^[1]		
Toxicity	Free from Halogen/Dioxin/CFC/Mercury/ Carbon Black/Heavy Metal	_	
Density, Typical Range, lbs/ft ^{3 [3]}	3.0 - 6.0	ASTM D 1622 or D 1667	

1 At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic

does not affect thermal efficiency or water vapor permeability of ArmaFlex insulation.

2 Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified.

3 Reference Only

Tube	6' (1.8 m) length		1/2" (13 mm) thickness Pipe Sizes: 3/8" to 5"	3/4" (19 mm) thickness Pipe Sizes: 3/8" to 8"	1" (25 mm) thickness Pipe Sizes: 5/8" to 6"
Sheet	3' x 4' (0.915 m x 1.22 m) width x length		1/2" (13 mm) thickness	3/4" (19 mm) thickness	1" (25 mm) thickness
Roll	4' (1.22 m) width	Thickness x length 1/4" x 140' (6 mm x 42.8 m)	Thickness x length 1/2" x 70' (13 mm x 21.4 m)	Thickness x length 3/4" x 50' (19 mm x 15.2 m)	Thickness x length 1" x 35' (25 mm x 10.7 m)
Таре	1/8" (3 mm) thickness x 2" (50 mm) width x 30 feet (9.1m) length				

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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. This document does not constitute nor is part of a legal offer to sell or to contract.

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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 3,000 employees and 23 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.



For more information, please visit: www.armacell.us 800-866-5638