



HT/Armaflex®

Tube and Roll Insulation

High Temperature & UV Resistant



- Stays flexible at +300° F
- Resists UV, oil, ozone
- Ideal for solar collectors

Tube and Roll Insulation

HT Armaflex (Tube and Roll) Insulation is a closed cell, fiber-free elastomeric foam from the world's most recognized brand in flexible mechanical insulation.

- **Proven:** World's original high-temperature closed cell insulation and protection for solar collectors, refrigeration (including hot gas piping) and automotive applications
- **Indoor Air Quality:** Fiber-free, formaldehyde-free, low VOCs, nonparticulating, resists mold
- **Durable:** No vapor retarder under normal conditions
- **Oil Resistant**

Description

HT Armaflex Tube and Roll Insulation is a flexible elastomeric thermal insulation for high temperature and oil-resistant applications. The closed-cell structure provides low thermal conductivity, good fire behavior, low temperature flexibility and excellent protection against heat flow and water vapor diffusion. It is manufactured without the use of CFCs, HFCs or HCFCs.

- Tubes: nominal wall thicknesses of 3/8", 1/2" and 3/4" (10, 13 and 19 mm)
- Rolls: nominal thicknesses of 1/2", 3/4" and 1" (13 mm, 19 mm, 25 mm)

HT Armaflex is oil-resistant as tested by ASTM Oil No. 1 and No. 3 and is also resistant to ultraviolet light and ozone. The product will not melt, drip or carry a progressive flame.

Uses

HT Armaflex Insulation withstands incidental oil contact and performs on a broad range of metal pipes and tubing in refrigeration-hot gas piping; automotive (under hood), solar collectors and dual temperatures and low pressure steam lines. HT Armaflex provides insulation and sweat control in demanding applications. It is specially formulated to remain flexible at temperatures up to +300° F (+150° C) for long life and dependable service – with intermittent exposure to +350° F (+175° C). The product complies with: ASTM C 534 Type I (Tubular) Grade 2, Type II (Sheet), Grade 2 and UL94 5V-A, V-0, File E 55798.

ALL ARMACELL FACILITIES IN NORTH AMERICA ARE ISO 9001:2000 CERTIFIED.

Application

HT Armaflex Insulation in unslit tube and roll form. HT tubes are easy to snap on or sleeve over pipework for new or existing piping applications. In roll form, HT installs quickly on large flat or curved surfaces using Armaflex 625 Adhesive. For pipes and fitting covers, only seams and joints require adhesive. HT Armaflex is installed in the same manner as AP Armaflex. Armaflex insulation products must be installed according to "Installation of Armaflex Insulations" brochure. Proper installation is required to assure Armaflex insulation performance.



HT 625 Adhesive

Powerful contact adhesive creates a vapor tight seal on systems operating up to 350° F (175° C).

Physical Properties

Specifications	Values	Test Method
Thermal Conductivity, Btu · in./h · ft ² · °F (W/mK) 32° F (0° C) mean temperature 75° F (24° C) mean temperature 120° F (50° C) mean temperature	0.275 (0.039) 0.30 (0.043) 0.32 (0.047)	ASTM C 177 or ASTM C 518
Water Vapor Permeability, Perm-inch. [Kg/(s·m·Pa)]	0.05 [7.25 x 10 ⁻¹³]	ASTM E 96, Procedure A
Mold Growth Fungi Resistance Bacterial Resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water Absorption, % by Volume	0.2%	ASTM C 209
Density, typical range, lbs/ft³ ①	3.0 – 6.0	ASTM D 1622 or ASTM D 1667
Ozone Resistance	Excellent	ASTM D 1149
Upper Use Limit ②	300° F (150° C)	
Lower Use Limit ③	-297° F (-183° C)	ASTM C 534

Notes

- ① Reference Only
- ② Suitable for systems with occasional or intermittent temperatures to 350° F (175° C), with a recommended exposure limit of one 30 minute period at 350° F (175° C) over 24 hours of operation.
- ③ 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.

HT/Armaflex Tubes

2 m (6.56') in length

Pipe Sizes			Nominal Wall Thicknesses
Metric Size (mm)	Copper Size (inch)	Iron Pipe Size (inch)	
12	1/2	–	
14/15	5/8	1/4	
18	3/4	3/8	
22	7/8	1/2	
25	1	–	10 mm (3/8')
28	1-1/8	3/4	13 mm (1/2')
35	1-3/8	1	19 mm (3/4')
42	1-5/8	1-1/4	
48	–	1-1/2	
54	2-1/8	–	
57	–	–	
60	–	2	
76	–	2-1/2	

HT Armaflex Rolls

Width (all)	1.00 m (3.28')		
Thickness (nominal) x Length	13 mm x 8 m (1/2" x 26.25')	19 mm x 6 m (3/4" x 19.69')	25 mm x 4 m (1" x 13.13')

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