



FLEXIBILITY AT HIGH
TEMPERATURES

HT/ArmaFlex®

Flexible elastomeric foam insulation
for use in high temperature applications

- // Advanced insulation for industrial applications
- // Reduces risk of corrosion under insulation (CUI)
- // Built-in UV-resistance for long service life

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ArmaFlex®

TECHNICAL DATA - HT/ARMAFLEX

Brief description	HT/ArmaFlex is a highly flexible, closed-cell insulation material with resistance to UV radiation.		
Material type	Flexible elastomeric foam (FEF), factory made according to EN 14304, based on ethylene propylene diene terpolymer (EPDM).		
Colour	Black.		
Applications	Thermal insulation of pipes, vessels and ducts in solar collectors (including outdoors), motor vehicles, hot gas lines, steam lines and dual temperature lines.		
Installation	Please refer to the ArmaFlex installation manual and technical bulletin no. 71 prior to installation. 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.		

Property	Value/Assessment			Standard/Test method	
Temperature range					
Service temperature ¹	Max. service temperature	+150 °C	+85 °C for tapes	Tested according to EN 14706, EN 14707 and EN 14304	
	Min. service temperature ¹	-50 °C			
Thermal conductivity					
	θm	40	°C	Declared according to EN ISO 13787. Tested according to EN 12667, EN ISO 8497	
tubes	λ ≤	0.040	W / (m·K)		λ = [36.92 + 0.125 · θ _m + 0.0008 · (θ _m - 30) ²] / 1000
sheets / tape	λ ≤	0.045	W / (m·K)		λ = [39.92 + 0.125 · θ _m + 0.0008 · (θ _m - 30) ²] / 1000
Water vapour diffusion resistance					
Water vapour diffusion resistance factor	tubes	μ ≥	4,000	Tested according to EN 12086, EN 13469	
	sheets / tape	μ ≥	3,000		
Fire performance & approvals					
Reaction to fire	Euroclass (tubes)		D _L -s3, d0	Classified according to EN 13501-1. Tested according to EN 13823 and EN ISO 11925-2	
	Euroclass (sheets / tape)		D-s3, d0		
Fire performance according to building regulations	Class 1			BS 476 Part 7: 1997	
Flammability	V-0 rating			UL94, IEC 60695 and Can/CSA-C.22.2 No0.17., UL746C	
Practical fire behaviour	Self-extinguishing, does not drip, 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 13467	
UV resistance	High			Tested according to EN ISO 4892-1	
Storage	Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).				
Shelf (storage life)	Tape, self-adhesive: 1 year.				
AGI designation code	tubes:	36.12.05.09.02			
	sheets:	36.07.05.09.02			

1. For temperatures above +125 °C or below -50 °C, please contact our Customer Service Center to request for the corresponding technical information.

2. At high service temperatures, a certain hardening process may start on the inner surface of the material. Investigations have shown that these changes have no impact on the good physical and fire protection properties of the material, provided the material is installed in a correct way with all its joints properly sealed. For specific applications please consult our technical service.

3. Under certain conditions in outdoor applications, there may be surface discolouration and minor surface cracks on the material. However, this visual changes has no impact on the physical properties of the material, such as thermal conductivity and behaviour in case of fire.

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. ArmaFlex HT625 adhesive should be used.

Tubes (length: 2.0m)

Item	10mm	13mm	19mm	25mm	Pipe maximum outer diameter [mm]	Minimum insulation inner diameter [mm]	Maximum insulation inner diameter [mm]
	Carton content [m]	Item	Carton content [m]	Item			
HT-10X010	192	HT-13X010	140		10	11.5	13.0
HT-10X012	172	HT-13X012	130	HT-19X012	80	12	13.5
HT-10X015	144	HT-13X015	112	HT-19X015	64	HT-25X015	40
HT-10X018	130	HT-13X018	98	HT-19X018	58	HT-25X018	36
HT-10X022	108	HT-13X022	84	HT-19X022	50	HT-25X022	36
HT-10X028	82	HT-13X028	64	HT-19X028	48	HT-25X028	32
HT-10X035	60	HT-13X035	50	HT-19X035	32	HT-25X035	24
HT-10X042	50	HT-13X042	40	HT-19X042	24	HT-25X042	20
		HT-13X048	32	HT-19X048	22	HT-25X048	16
		HT-13X054	32	HT-19X054	18	HT-25X054	16
		HT-13X060	28	HT-19X060	16	HT-25X060	16
		HT-13X076	24	HT-19X076	18	HT-25X076	12
		HT-13X089	18	HT-19X089	16	HT-25X089	12

Other information

Length tolerance ± 1.5%

Thickness tolerance 10mm - 13mm: ± 1.5mm
19mm - 25mm: ± 2.5mm

Coils

Item	13mm	19mm	Pipe maximum outer diameter [mm]	Minimum insulation inner diameter [mm]	Maximum insulation inner diameter [mm]
	Carton content [m]	Item			
HT-13X015/E	26	HT-19X015/E	16	15	16.5
HT-13X018/E	22	HT-19X018/E	14	18	19.5
HT-13X022/E	18	HT-19X022/E	12	22	23.5

Other information

Length tolerance ± 1.5%

Thickness tolerance 10mm - 13mm: ± 1.5mm
19mm - 25mm: ± 2.5mm



Rolls (Width: 1.0m)

Item	Insulation thickness	Length	Carton content
	[mm]	[m]	[sqm]
HT-10-99/E	10	10	10
HT-13-99/E	13	8	8
HT-19-99/E	19	6	6
HT-25-99/E	25	4	4
HT-32-99/E*	32	3	3

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

Other information

Length tolerance	± 1.5%
Thickness tolerance	10mm - 19mm: ± 1.5mm
	25mm - 32mm: ± 2.5mm

Accessories

Item	Carton content	Article description
HT-TAPE	12 rolls	HT/ArmaFlex insulation tape (3mm thickness x 50mm width x 15m)
ADH-HT625/0,25	40 x 0.25 litre cans	ArmaFlex HT 625 adhesive
ADH-HT625/0,5	12 x 0.5 litre cans	ArmaFlex HT 625 adhesive
ADH-HT625/1,0	12 x 1.0 litre cans	ArmaFlex HT 625 adhesive



//Cover Photo

Piping systems found in industrial applications, such as hot gas lines, steam lines and dual-temperature lines, can reach to +150 °C. Hence, process plants and factories such as Bayer AG, Degussa AG (German Gold and Silver Refinery) and Alfred Ritter GmbH & Co. KG (Makers of Ritter Sport chocolates) trust and install HT/ArmaFlex in their facilities for personnel safety and to save energy.

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.

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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 3,100 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.

For more information, please visit:
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