

FLEXIBILITY AT HIGH TEMPERATURES

# HT/ArmaFlex<sup>®</sup>

The flexible insulation for high temperature applications

- // High degree of stability for a wide temperature range
- // UV resistant and able to withstand typical weathering effects
- // Built-in vapour barrier to reduce the risk of corrosion under insulation (CUI)
- // Retains its physical characteristics throughout service life
- // Reduces energy losses with a low thermal conductivity
- // Low maintenance and repair costs

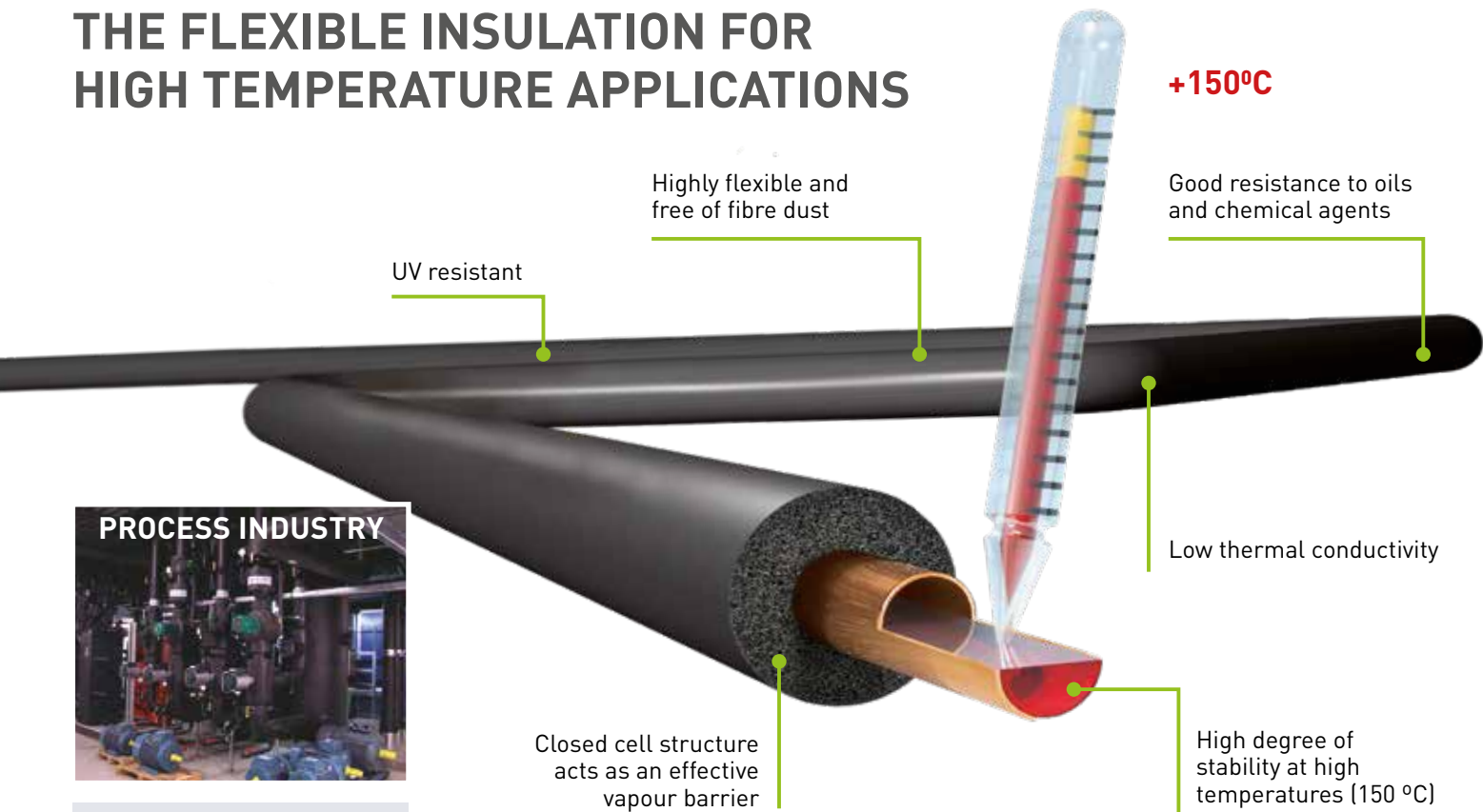
[www.armacell.co.uk](http://www.armacell.co.uk)



 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>

# HT/ArmaFlex®

## THE FLEXIBLE INSULATION FOR HIGH TEMPERATURE APPLICATIONS



UV resistant

Highly flexible and free of fibre dust

+150°C

Good resistance to oils and chemical agents

Low thermal conductivity

Closed cell structure acts as an effective vapour barrier

High degree of stability at high temperatures (150 °C)



PROCESS INDUSTRY



ENERGY SAVINGS

## Complete System

The complete insulation system for high temperature applications.

- HT/ArmaFlex
- ArmaFlex HT625 adhesive



## Range



TUBE

2m  
Coils



SHEET

Continuous sheet  
(rolls)



TAPE

Self-adhesive

## RECOMMENDED PRODUCTS

For a complete installation

ArmaFlex HT625 Adhesive



ArmaFlex Cleaner



## TECHNICAL DATA - HT/ARMAFLEX®

Flexible closed cell elastomeric insulation, based on synthetic EPDM rubber, specifically suitable for installations that work at high temperatures.

<b>Material type</b>	Synthetic EPDM rubber based foam.
<b>Colour</b>	Black
<b>Applications</b>	Thermal insulation of pipes, vessels and ducts for solar panels (including outdoors), motor vehicles, hot gas lines, steam and dual temperature lines.
<b>Special features</b>	Fulfills DIN 1988, resistant to UV radiation.
<b>Safety &amp; environment</b>	Type III Environmental Product Declaration (EPD): Declaration number EPD-ARM-20150108-IBB1-DE, institut bauen und umwelt e.V (IBU).
<b>Assembly</b>	The ArmaFlex application guide should be consulted before use.
<b>Remarks</b>	Declaration Of Performance (DOP) is available in accordance with Article 7(3) of regulation (EU) No 305/2011

Property	Value/Assessment	Test	Standard & Remarks
<b>Temperature Range<sup>1</sup></b>			
Max service temperature <sup>2</sup>	+150 °C, +85 °C for tape	EU 5666	Tested acc. to EN 14706 & EN 14707
Min service temperature	-50 °C		
<b>Thermal Conductivity</b>			
Tubes	$\lambda_{40^\circ\text{C}} \leq 0.042 \text{ W/(m}\cdot\text{K)}$ $[36.92+0.125 \cdot \vartheta_m + 0.0008 \cdot (\vartheta_m-30)^2]/1000$	EU 5666	Tested acc. to BS 874 Part 2 1986, EN 12667 & EN ISO 8497
Sheets	$\lambda_{40^\circ\text{C}} \leq 0.045 \text{ W/(m}\cdot\text{K)}$ $[39.92+0.125 \cdot \vartheta_m + 0.0008 \cdot (\vartheta_m-30)^2]/1000$		
<b>Water Vapour Diffusion Resistance</b>			
Tubes	$\mu > 4000$	EU 5666	Tested acc. to EN 12086 & EN 13469
Sheets	$\mu > 3000$		
<b>Fire Performance</b>			
Reaction to fire	Class 1 Euroclass tubes & sheets D-s3, d0 & DL-S3,d0 UL94	GB 5904 & EU5666	Tested acc. to BS476 Part 7: 1997 Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2
Other fire class	UL approved V-0 Lloyds register material having low flame spread characteristics	UL:EU 5837 Lloyd R: EU 6136	UL tested acc. to UL94 IEC 60695 & Can/CSA-C.22.2. No.0.17, UL 746C. Lloyds Register: Tested acc. to BS 476 Part 7
Practical fire behaviour	Self-extinguishing, does not drip & does not spread flames		
<b>Other Technical Features</b>			
Dimensions & tolerances	In accordance with EN 14304, table 1	EU 5316	Tested acc. to EN 822, EN 823 & EN 13467
UV resistance <sup>3</sup>	Good		
Health aspects	Dust and fibre free		
Storage & shelf life	Tape & self-adhesive sheets	1 year	Stored in dry clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C - 35 °C)
Resistance to	Building materials: Very good, Chemicals: Consult product test list Ozone: Very good, UV: Very good		
Environmental aspects	ODP zero, GWP zero	EU5197	

1. For temperatures above +125 °C or below -50 °C please contact our Customer Service Centre to request 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 special applications please consult our technical services.

3. With outdoor applications, in certain circumstances the material may experience a discolouration of the surface and some minor 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  
○: 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 Centre before insulating stainless steels. Armaflex HT625 adhesive must be used to guarantee proper installation. For temperatures below -50 °C or above +150 °C, please consult our Customer Service Centre for further information.

## TUBE



<b>Length</b>	2m
<b>Colour</b>	Black

Pipe max. Outside - Ø (mm)	Inner tube Ø min (mm)	Inner tube Ø max (mm)	10mm Insulation Thickness	
			Code	m /carton
10	11.5	13	HT-10X010 •	192
12	13.5	15	HT-10X012 •	172
15	16.5	18	HT-10X015	144
18	19.5	21	HT-10X018 •	130
22	23.5	25	HT-10X022	108
28	29.5	31	HT-10X028 •	82
35	36.5	38.5	HT-10X035 •	60
42	44	46	HT-10X042 •	50
48	50	52		
54	55.5	57.5		
60	62	64		
76	77.5	80		
89	91	93		

• Not a stock item

Pipe max. Outside - Ø (mm)	Inner tube Ø min (mm)	Inner tube Ø max (mm)	10mm Insulation Thickness	
			Code	m /carton
12	13.5	15	HT-19X012 •	80
15	16.5	18	HT-19X015	64
18	19.5	21	HT-19X018 •	58
22	23.5	25	HT-19X022	50
28	29.5	31	HT-19X028	48
35	36.5	38.5	HT-19X035	32
42	44	46	HT-19X042	24
48	50	52	HT-19X048	22
54	55.5	57.5	HT-19X054	18
60	62	64	HT-19X060	16
76	77.5	80	HT-19X076	18
89	91	93	HT-19X089	16

• Not a stock item

13mm Insulation Thickness	
Code	m /carton
HT-13X010 •	140
HT-13X012 •	130
HT-13X015	112
HT-13X018 •	98
HT-13X022	84
HT-13X028 •	64
HT-13X035	50
HT-13X042	40
HT-13X048	32
HT-13X054	32
HT-13X060	28
HT-13X076	24
HT-13X089	18

13mm Insulation Thickness	
Code	m /carton
HT-25X015	40
HT-25X018 •	36
HT-25X022	36
HT-25X028	32
HT-25X035	24
HT-25X042	20
HT-25X048	16
HT-25X054	16
HT-25X060	16
HT-25X076	12
HT-25X089	12

### Other Information

Length tolerance for tubes	±1.5%
Thickness tolerance for tubes	10mm-13mm ±1.5mm
	19mm-25mm ± 2.5mm

## COILS

Colour Black



Pipe max. Outside - Ø (mm)	Inner tube Ø min (mm)	Inner tube Ø max (mm)	13mm Insulation Thickness	
			Code	m /carton
15	16.5	18	HT-13X015/E •	26
18	19.5	21	HT-13X018/E •	22
22	23.5	25	HT-13X022/E •	18

19mm Insulation Thickness	
Code	m /carton
HT-19X015/E •	16
HT-19X018/E •	14
HT-19X022/E •	12

• Not a stock item

## CONTINUOUS SHEET (ROLLS)

Length 2m

Colour Black



Code	Thickness (mm)	Length (m)	Pieces /carton
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

• Not a stock item

### Other Information

Length tolerance for sheet	±1.5% - 5%
Thickness tolerance for sheet	10mm-19mm ±1.5mm
	25mm-32mm ± 2mm

## SELF ADHESIVE TAPE

Colour Black



Code	Width (mm)	Roll length (m)	Thickness (mm)	Rolls/carton
HT-TAPE	50	15	3	12

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All data and technical information are based on results achieved under typical application conditions. 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. 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

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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:  
[www.armacell.co.uk](http://www.armacell.co.uk)

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**ArmaFlex**<sup>®</sup>