armacell
engineered foams

THE MAKERS OF
Armaflex®

HT/Armaflex® S

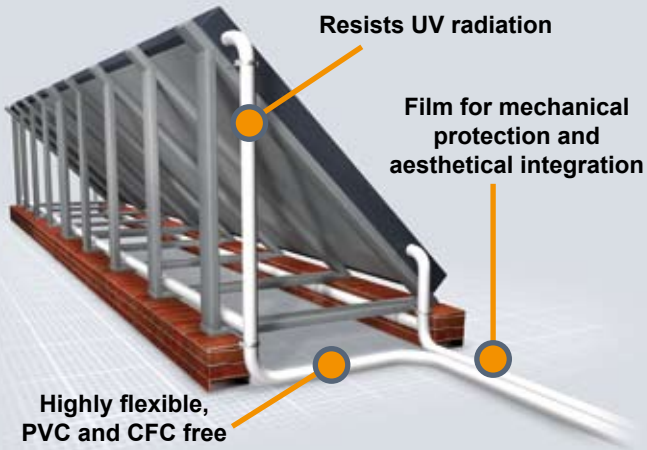
HT/Armaflex® S

EFFICIENCY FOR OUTDOOR APPLICATIONS

HT/ARMAFLEX® S – The flexible and high-temperature resistant insulation to optimise efficiency of outdoor applications.

HT/Armaflex® S

Highest efficiency for outdoor applications



Solar systems

Heating

Your benefit:

HT/Armaflex® S is a flexible thermal insulation especially designed for outside- and high temperature applications of up to 150 °C.

HT/Armaflex® S has a closed cell structure which provides a reliable water vapour barrier, thus reducing the risk of condensation and water penetration. Its low thermal conductivity minimises energy losses, resulting in a higher efficiency of the equipment.

The high flexibility of HT/Armaflex® S allows easy installation without special tools. Its covering foil gives the product additional mechanical resistance, withstands UV radiation and does not degrade by sun or weathering conditions.

Technical data

Short description:	Highly flexible, closed cell insulation material based on extruded elastomeric foam, covered with a polyolefin film.
Material:	Synthetic EPDM rubber based foam, colour black. Covering polyolefin film in white or black colour.
Area of application:	Thermal insulation for pipework, vessels and ducts in: solar collectors including outdoors, motor vehicles, hot gas lines, steam and dual temperature lines
Peculiarities:	At high service temperatures a certain hardening process may start on the inner surface of the tube. This process neither has influence on the physical properties of the material, such as thermal conductivity and behaviour in case of fire.
Special features:	Free of CFC's, fulfils DIN 1988 Parts 2 and 7, resistant to UV radiation

Short description	Value/Assessment	Remarks
Application range Max. service temperature Min. service temperature	 +150 °C (+175 °C *) -50 °C	*at temperatures above +150 °C, please contact our customer service.
Thermal conductivity λ: at 0 °C at 40 °C	 ≤ 0,038 W/(m · K) ≤ 0,042 W/(m · K)	Testing according to EN ISO 8497 (DIN 52613)
Water vapour diffusion resistance factor μ:	≥ 4.000	Testing according to EN 13469
Fire behaviour	Normally flammable B2	Testing according to DIN 4102, Part 1

HT/Armaflex® S tubes, 2 m

Copper tube Cu		Steel pipe Fe		Armaflex tube	Insulation wall thickness		
Outside ø mm	Inch	Outside ø mm	Inch	Internal ø min/max mm	13 mm	20 mm	30 mm
12	½			13,5-15,0	HT-13X12-SWH[1)] HT-13X12-SBK[2)]		
15	⅝	13,5	¼	16,5-18,0	HT-13X15-SWH HT-13X15-SBK	HT-20X15-SWH HT-20X15-SBK	HT-30X15-SWH HT-30X15-SBK
18	¾	17,2	⅜	19,5-21,0	HT-13X18-SWH HT-13X18-SBK	HT-20X18-SWH HT-20X18-SBK	HT-30X18-SWH HT-30X18-SBK
22	⅞	21,3	½	23,5-25,0	HT-13X22-SWH HT-13X22-SBK	HT-20X22-SWH HT-20X22-SBK	HT-30X22-SWH HT-30X22-SBK
26	1 ⅛	26,9	¾	29,5-31,0	HT-13X28-SWH HT-13X28-SBK	HT-20X28-SWH HT-20X28-SBK	HT-30X28-SWH HT-30X28-SBK
36	1 ⅜	33,7	1	36,5-38,5		HT-20X35-SWH HT-20X35-SBK	HT-30X35-SWH HT-30X35-SBK
42	1 ⅝	42,4	1 ¼	43,5-45,5		HT-20X42-SWH HT-20X42-SBK	HT-30X42-SWH HT-30X42-SBK

[1)] WH = White colour / [2)] BK = Black colour

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 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 technical service before insulating stainless steels. Armaflex Adhesive HT 625 must be used for proper gluing of joints and seams.

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