

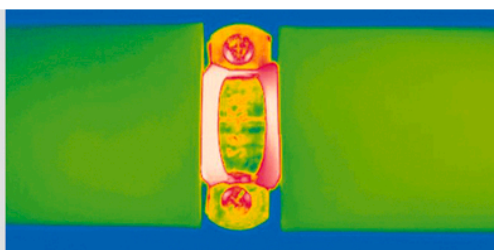
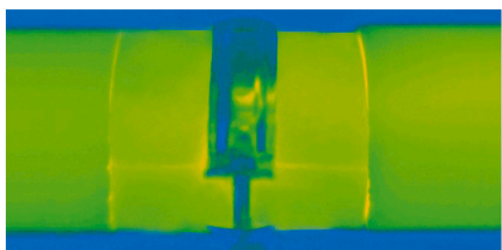
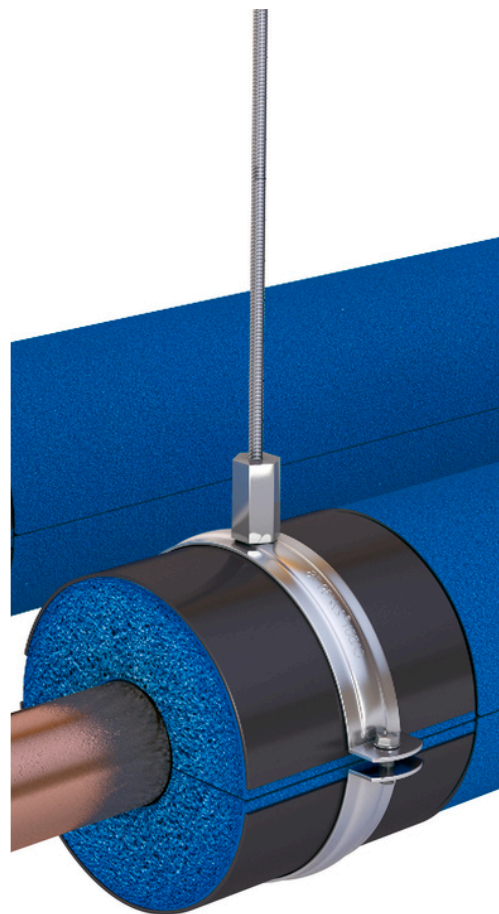


INSTALL IT. TRUST IT.

# ArmaFix Ultima

The only pipe support for B-s1, d0  
ArmaFlex systems with low smoke  
requirements

- // Increased safety through superior fire performance and reduced smoke density
- // Fully matching the ArmaFlex Ultima product range
- // Prevents thermal bridges and reduces energy losses and minimises CO<sub>2</sub> emissions
- // First flexible closed-cell insulation with Euroclass B(L)-s1,d0



 **armacell**<sup>®</sup>  
ArmaFix<sup>™</sup>

INSTALL IT. TRUST IT.

# ArmaFlex Ultima

- ✓  
FIRE  
SAFETY
- ✓  
ENERGY  
EFFICIENCY
- ✓  
CONDENSATION  
CONTROL
- ✓  
INDOOR  
AIR QUALITY
- ✓  
LONG-TERM  
SAFE OPERATION

With ArmaFlex Ultima we have set a new safety standard in technical insulation. Based on the patented ArmaPrene® technology, we now offer a complete range of B/B<sub>L</sub>-s1,d0 classified tubes and sheets.

**In comparison to a standard elastomeric product, the flame-resistant insulation material develops 10 times less smoke and offers increased safety in the event of a fire.**

Benefit  
from our  
**10 years**  
warranty on  
ArmaFlex Ultima

## ULTRA-LOW SMOKE PROPERTIES

As smoke is a significant risk in a fire, smoke density requirements for equipment insulation materials are becoming stricter. When assessing the fire behaviour of building products, the European fire classification not only tests the flammability, but also the smoke density and the production of burning droplets. By reducing the smoke density, ArmaFlex Ultima improves visibility and respiration, thus extending the time available to evacuate safer in the event of a fire.

## RELIABLE THERMAL AND CONDENSATION CONTROL

Thanks to its good thermal conductivity and high resistance to water vapour diffusion, the closed-cell ArmaFlex Ultima ensures reliable condensation control and high energy savings in the long-term. This also minimises the risk of corrosion under insulation (CUI) and reduces the risk of costs associated with downtime, lost productivity, or even facility shutdown. ArmaFlex Ultima can be installed on mechanical equipment with service temperatures between +110 °C and -50 °C (-200 °C)\*. It is FM-approved and IMO-certified.

\*Please contact our Technical Customer Service for cryogenic applications



# ARMAPRENE

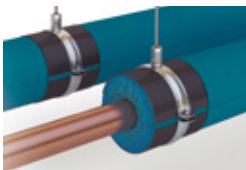
Our patented ArmaPrene technology offers the highest fire standard in flexible insulation.

While standard elastomeric products with brominated flame retardants inhibit combustion very effectively in the event of a fire, they tend to produce a high level of smoke. Our breakthrough ArmaPrene technology resolves this conflict: due to the development of intrinsically flame-resistant polymers and by using ablative protective additives it is no longer necessary to add any brominated flame retardants.



ArmaFlex saves  
**140**  
times more energy  
than is needed for  
its production

## SYSTEM SOLUTION FOR MAXIMUM RELIABILITY

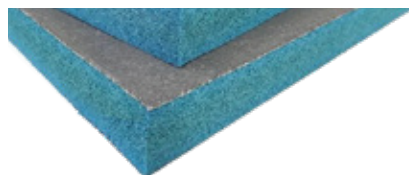


ArmaFlex Ultima pipe support thermally isolates the pipe and its fixing from each

other and, together with the adjoining ArmaFlex Ultima insulation, forms a long-term reliable insulation system. For the installation of ArmaFlex Ultima, we offer a range of specially formulated adhesives, including a solvent-free product which is predestined for sustainable construction projects realised according to LEED®, BREEAM, DGNB or national green building schemes.

## ARMAFLEX ULTIMA C

With our new ArmaFlex Ultima C, we now offer insulation sheets meeting the highest fire classification for flexible technical insulation. This pre-covered insulation solution achieves Euroclass B-s1,d0 and is engineered for installation on airducts, large pipe diameters, vessels and tanks where an improved fire performance is required. The sheets provide a high level of protection against mechanical impact and are easy to clean. The covering reinforces the vapour barrier resistance creating a safer system to prevent condensation and energy losses in the long term. What's more, the dark-grey surface is highly absorptive and thinner insulation thicknesses can be installed to control condensation.



## APPROVED FOR GREEN BUILDING

ArmaFlex Ultima meets the most stringent environmental requirements and saves specifiers time by being accredited in the most important green building schemes.

SUNDAHUS  
NORDIC SWAN ECOLABEL  
BYGGVARUBEDÖMNINGEN  
MINERGIE-ECO  
LEED | BREEAM | DGNB

Bromine-free  
Antimony-free  
PVC-free

## TECHNICAL DATA - ARMAFIX ULTIMA

Brief description	Pipe and duct support for refrigeration and air-conditioning installations to prevent condensation at fixing points. Thermally non-interacting single piece, with 2 ArmaFORM PET foam sections and with self-adhesive closure. All dimensions are matching the ArmaFlex Ultima range.
Material type	PET-foam bearing segments, embedded in and glued to ArmaFlex Ultima elastomeric foam material. Outside bearing shells made of painted aluminium sheeting 0.8mm thick, which simultaneously serves as a vapour barrier for the PET bearing segments.
Product colour range	Dark blue
Special features	Traces of silicone can be found on the protection paper / foil used to protect self-adhesive closures.
Applications	When used in installations with intermittent temperatures, thermal length extensions may cause inherent pressure in the installation; this needs to be considered in the overall insulation construction.

Property	Value / Assessment	Standard / Test method
<b>Temperature range</b>		
Service temperature	Min. °C <sup>1</sup> -50	Max. °C 110
		EN 14706, EN 14707, EN 14304
<b>Thermal conductivity</b>		
Remarks	Same as ArmaFlex Ultima	EN ISO 13787, EN 12667, EN ISO 8497
<b>Fire Performance and Approvals</b>		
Reaction to fire	Euroclass: E Entire system with ArmaFlex Ultima tubes: B(L)-s1, d0 Entire system with ArmaFlex Ultima sheets: B-s2, d0	EN 13501-1, EN 13823, EN ISO 11925-2
Surface flammability <sup>2</sup>	low-flammable - 2010 FTP-Code (MED 96/98/EC, Module D)	IMO 2010 FTP Code, Part 5
<b>Fire performance</b>		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames	
<b>Resistance to water vapour</b>		
Water vapour diffusion resistance factor	Same as ArmaFlex Ultima	EN 12086, EN 13469
<b>Physical attributes</b>		
Density	95 - 105 kg/m <sup>3</sup> (pipe bearing segments)	
<b>Health and environment</b>		
Additional features	MCCP-free	
<b>Other technical features</b>		
Shelf life	3 years	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

<sup>1</sup>For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

<sup>2</sup>According to IMO 2010 FTP Code annex 2, clause 2.2 a fire technical test for smoke density and toxicity is not necessary.

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## ABOUT ARMACELL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



For more information, please visit:  
[www.armacell.com](http://www.armacell.com)