



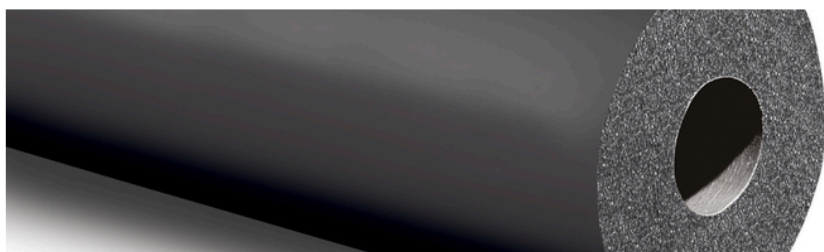
INSTALL IT. TRUST IT.

# ArmaFlex SE

The upgraded essential insulation solution meeting s2 smoke regulation

- // Increased from s3 to s2 smoke classification
- // Compliant with EU regulations
- // Available in both tubes and sheets
- // Easy to install

[www.armacell.eu](http://www.armacell.eu)



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

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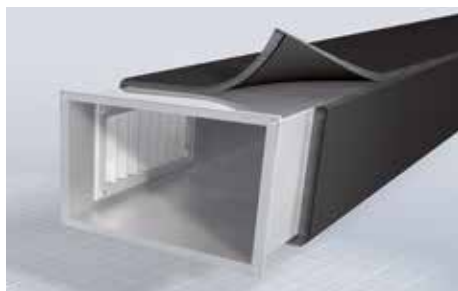
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# ArmaFlex SE

ArmaFlex SE is the essential energy-efficient solution developed for offering the best balance between quality and value. Its technical features makes it suitable for applications such as HVAC-Air (ventilation) and HVAC-Liquid (piping).

DGNB  
MINERGIE-ECO | VKF

Bromine-free | Antimony-free | PVC-free



## // ENERGY EFFICIENCY

Insulating mechanical equipment with ArmaFlex SE is one of the simplest measure to be energy efficient. With air-conditioning accounting for approximately 50 percent of office and public buildings energy demand today, equipment insulation offers an enormous energy saving potential.

## // INCREASED FIRE SAFETY

95 percent of fire fatalities occur due to smoke inhalation. In a fire, low smoke density can be a matter of life or death for those trapped. Armacell uses innovative technologies to get the right balance between high flame resistance and minimal smoke development. **Increased from smoke classification s3 to s2.**

## // COMPLIANT TO EU REGULATIONS

Technical insulation products have to comply with the European standards. European authorities also streamline the importance of moving to products with a better smoke classification in order to increase the fire safety in buildings. ArmaFlex SE already complies with the latest European standards such as MVVTB in Germany.



INCREASED FROM  
s3 TO s2 SMOKE  
CLASSIFICATION



COMPLIANT TO  
EU REGULATION



AVAILABLE IN  
BOTH TUBES  
AND SHEETS



EASY  
TO INSTALL

## TECHNICAL DATA - ARMAFLEX SE

Brief description	Highly flexible, closed-cell insulation material
Material type	Elastomeric foam based on synthetic rubber. Factory-made flexible elastomeric foam (FEF), according to EN 14304.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure. Covered with polyethylene foil. Traces of silicone may be present on the paper/foil protecting self-adhesive closures.
Product colour range	Black
Applications	Insulation/protection of pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning, refrigeration and process equipment to prevent condensation and save energy as well as insulation of pipes in sanitary and heating applications.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 525.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a> .

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature <sup>1</sup>	Min. °C	Max. °C	EN 14706, EN 14707, EN 14304
	-50	110	
	Remarks	+85 °C if sheet is glued to the object with its whole surface. +85 °C for tapes	
Thermal conductivity			
Declared thermal conductivity	Θm	0°C	EN ISO 13787, EN ISO 8497
	λd ≤ [W/(m·K)]	0.035	
	Range	Tubes 9 - 19 mm	
	Formula	λd = [35 + 0,1· Θm + 0,0008 · Θm²]/1000	
Declared thermal conductivity	Θm	0 °C	EN ISO 13787, EN ISO 8497, EN 12667
	λd ≤ [W/(m·K)]	0.036	
	Range	tubes > 19 - 32 mm, sheets 3 - 32 mm, tape	
	Formula	λd = [36 + 0,1· Θm + 0,0008 · Θm²]/1000	
Fire Performance and Approvals			
Reaction to fire	tubes: C(L)-s2,d0 sheets: C-s2,d0 tape: C-s2,d0		EN 13501-1, EN ISO 11925-2, EN 13823
Fire performance			
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames		
Resistance to water vapour			
Water vapour diffusion resistance factor	μ ≥ 7.000		EN 12086, EN 13469
Physical attributes			
Dimensions and tolerances	in accordance with EN 14304, table 1		EN 822, EN 823, EN 13467
Weather and UV resistance			
UV resistance <sup>2</sup>	Protection against UV radiation is necessary (see Technical Bulletin no. 142).		
Other technical features			
Adhesion and sealing	ArmaFlex 525 is the certified adhesive for this product. However, ArmaFlex 520 adhesive can potentially be used for tubes.		

Property	Value / Assessment	Standard / Test method
Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year	
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 use in temperatures beyond the maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

<sup>2</sup>If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with a covering such as Arma-Chek within 3 days of installation.



# OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



## **SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7**

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

## **DEDICATED LOCAL CONTACTS**

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

## **DIGITAL INFORMATION FLOWS**

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



### OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

### WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES\*

#### OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

#### LABELLING

- Extra label for transport instructions

#### EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service\* by which pallets can be handed at Armacell collection points.

\* Please contact your local Customer Service Centre to see which of these services apply to your country.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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. This document does not constitute nor is part of a legal offer to sell or to contract.

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ArmaFlex | ArmaFlex SE | Brochure | 032023 | en-WW

## 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 more than 3200 employees and 27 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 high-tech and lightweight applications and next generation aerogel blanket technology.



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