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# ArmaFlex Duct Plus AL

Insulation for air duct applications with  
silver finish

- // Fibre-free
- // Closed-cell structure to prevent water vapour transmission
- // Prevents condensation
- // Structure-borne noise control



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

## TECHNICAL DATA - ARMAFLEX DUCT PLUS AL

Brief description	ArmaFlex Duct Plus AL is a closed-cell insulation material with a silver finish. The low thermal conductivity is especially designed and produced for the thermal insulation of air-conditioning ducts. ArmaFlex Duct Plus AL insulation reduces heat losses and the closed-cell structure prevents water vapor transmission, thus avoiding the risk of corrosion.
Material type	Highly flexible closed-cell elastomeric foam material based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN14304. Covering: 12 µm laminate of aluminium, double coated glass scrim 5 x 5 mm and 22 g/m <sup>2</sup> LDPE coating.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.
Product colour range	Silver (Covering)
Special features	High flexible closed-cell insulation material especially designed for HVAC/R applications.
Applications	Insulation of rectangular and cylindrical air ducts to optimally prevent heat losses, prevent condensation and save energy.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.
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
<b>Temperature range</b>			
Service temperature	Min. °C <sup>1</sup>	Max. °C <sup>2</sup>	EN 14706, EN 14707, EN 14304
	-50	110	
<b>Thermal conductivity</b>			
Declared thermal conductivity	θm	+/- 0 °C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0.036	
	Range	Sheets 9 -40 mm	
	Formula	[36 + 0,1· θm + 0,0008 · θm <sup>2</sup> ]/1000	
<b>Fire Performance and Approvals</b>			
Reaction to fire	sheets B-s3, d0		EN 13501-1, EN 13823, EN ISO 11925-2
<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	μ ≥ 10000		EN 12086
<b>Physical attributes</b>			
Dimensions and tolerances	In accordance with EN 14304, table 1		EN 822, EN 823, EN 13467
<b>Weather and UV resistance</b>			
UV resistance	Excellent. (see Technical Bulletin no. 142)		
<b>Health and environment</b>			
Health aspects	Dust- and fibre-free.		
Additional features	MCCP-free		
<b>Other technical features</b>			
Shelf life	Self-adhesive tapes, self-adhesive sheets: 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 temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

<sup>2</sup>+85 °C, for products with a self-adhesive layer.

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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)