

Armaflex[®] LTD

TOUGH FLEXIBILITY FOR LOW
TEMPERATURES APPLICATION



- Stays flexible at low temperatures
- Reduces the risk of crack development and propagation
- Reduces the risk of corrosion under insulation (CUI)
- Protects against mechanical impact and shock

- Low thermal conductivity
- Low glass transition temperature
- Easy installation even to complex shapes
- Less wastage compared to rigid / pre-fabricated pieces

Technical Data - Armaflex LTD

Brief description	Highly-flexible, closed-cell cryogenic insulation material for use in Armaflex® Cryogenic Systems, providing reliability and performance on industrial process pipework and tanks
Material type	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304
Colour	Blue
Applications	Insulation / protection for pipes, tanks, vessels (incl. elbows, flanges etc.) in production plants for petrochemicals, industrial gases, and agricultural chemicals. Product specially designed for use on the import/export pipelines and process areas of LNG facilities.
Remarks	EC Certificate of Conformity no. 0543 of Güteschutzgemeinschaft Hartschaum e.V. , Celle A high-performance thermal insulation material designed to meet the demands of low-temperature environments. Armaflex LTD is part of Armaflex Cryogenic Systems, providing low temperature flexibility to the system.

Property	Value/Assessment		Test ¹	Special Remark
Temperature Range				
Temperature Range	max. service temperature	+110 °C	(For temperatures > 110 °C please contact our technical department)	Tested according to EN 14706 Tested according to EN 14304
	min. service temperature ¹	-200 °C		
Thermal Conductivity				
Thermal Conductivity	ϑ_m	0	[°C]	$\lambda =$
	Sheets & Tubes (25 mm)	$\lambda \leq 0.040$	W/(m · K)	$[40 + 0.1 \cdot \vartheta_m] / 1000$
Water vapour diffusion resistance				
Water vapour diffusion resistance	For details on system performance please contact our technical department			
Fire Performance				
Reaction to Fire	BS 476 Part 7	Class 1		EU 5035
	ASTM E84	Class A		EU 5135
Other Fire Class	For other fire classes please consult our technical department			
Density	60 - 75 kg/m ³			
Ozone Resistance	No crack			
Glass Transition Temperature (DMA)	Below -70 °C			
Leachable Chlorides	Please contact our technical department			

1. For some applications below -110 °C the system is installed with an anti-abrasive foil, bonded to the inner surface layer. Please consult our customer service for further information.
*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

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 Center before insulating stainless steels. For some refrigerants the discharge temperature may exceed +110 °C, please consult our Customer Service Center for further information. Armaflex 520 or Armaflex HT 625 Adhesive must be used to guarantee proper installation. For outside use, Armaflex should be protected with a suitable outer covering within 3 days of installation.

Armacell India Pvt. Ltd.

GAT No. 744-745, Village Lonikand, Pune Nagar Road • 412216 Pune •

Maharashtra • India

Phone +91 20 66782000

www.armacell.com • info.isa@armacell.com

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