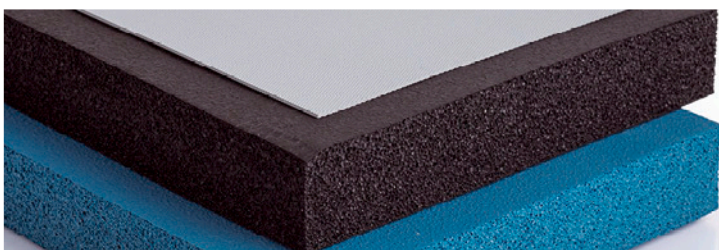


ArmaFlex LTD

www.armacell.in



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ArmaFlex[®]

TECHNICAL DATA - ARMAFLEX LTD

Brief description	ArmaFlex LTD is a flexible, high density and mechanically robust, closed cell cryogenic thermal insulation material based on extruded elastomeric foam.		
Material type	Synthetic Diene Terpolymer rubber based foam.		
Applications	Cryogenic thermal insulation / protection of pipes, vessels and equipment (incl. elbows, fittings, flanges etc.) in production plants for petrochemicals, industrial gases, LNG, agricultural chemicals and other process equipment facilities.		
Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature	Min. °C ¹	Max. °C	
	-183	125	
Thermal conductivity			
Declared thermal conductivity	Øm	-100°C	-165°C
	$\lambda d \leq [W/(m \cdot K)]$	0.028	0.021
			EN 12667, EN ISO 8497, ASTM C177, ASTM C518
Fire Performance and Approvals			
Surface burning characteristics	Flame Spread Index ≤ 25		ASTM E84
Limiting oxygen index	$\geq 30\%$		GB/T 2406.2, ISO 4589-2
Fire performance			
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames.		
Resistance to water			
Water absorption	$\leq 0.2\%$ by volume		ASTM C1763
Corrosion mitigation			
Leachable (water-soluble) chlorides	≤ 80 ppm (mg/kg or µg/g)		ASTM C871, EN 13468
pH-value	7 to 9		ISO 10523
Contact with austenitic stainless steel	No cracks under magnifying glass on test coupons after evening, cleaning and rebending.		ASTM C692
Physical attributes			
Density	60 to 90 kg/m ³		ISO 845, ASTM D1622, GB/T 6343
Weather and UV resistance			
Weather resistance	In all outdoor/industrial application, the outer layer of the material must be protected with an adequate covering like Arma-Chek R, metal jacketing or preformed UV-cured GRP (Glass-Reinforced Plastic) cladding.		
Health and environment			
Health aspects	Free of fibre and formaldehyde.		
Other technical features			
Shelf life	Max. 3 years.		
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.		

¹ Can be used till -183 °C if required. Contact Armacell Technical Services for more information.

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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ABOUT ARMACELL

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