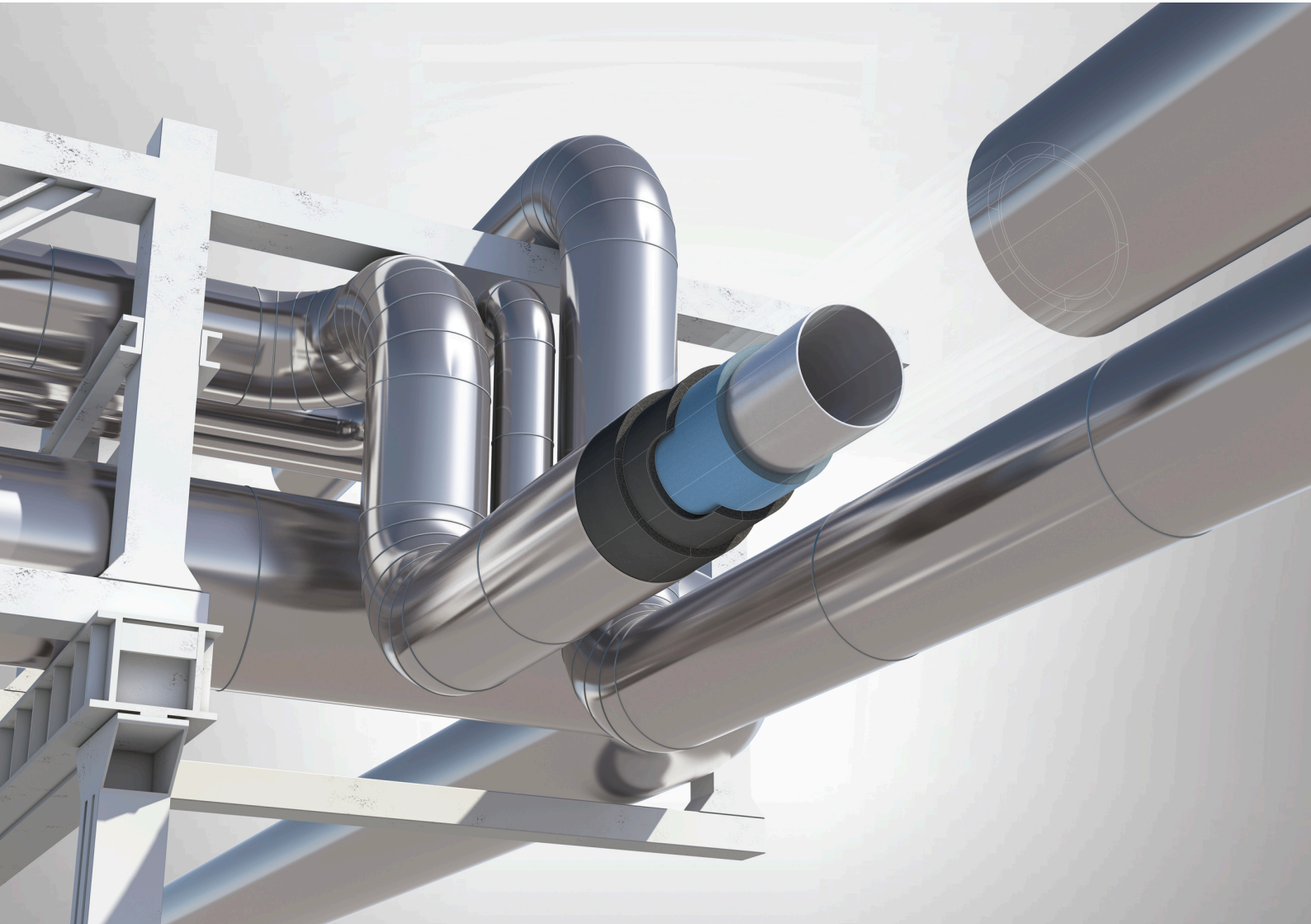


Armaflex[®]
Cryogenic Systems

DEDICATED CRYOGENIC INSULATION
SYSTEM FOR LOW TEMPERATURE
FLEXIBILITY



- No contraction joints
- No mastic vapour barriers or joint sealants required
- Minimised risk of corrosion under insulation (CUI)
- Ease of installation with reduced use of hazardous components

- Multi-layered system provides exceptional thermal performance
- For operating temperatures down to $-180\text{ }^{\circ}\text{C}$
- Low temperature flexibility

Technical Data - Armaflex Cryogenic Systems

Brief description	Armaflex® Cryogenic Systems are high-performance thermal insulation systems designed to meet the demands of low-temperature environments. These multi-layered systems (comprising of Armaflex®, Armaflex® LTD and Arma-Chek R or Arma-Chek R CSPE coverings or UV-cured GRP cladding) provide exceptional thermal performance, reduce the risk of corrosion under insulation (CUI) and minimise the time needed for installation.		
Material type	See product datasheets of individual components.		
Colour	Colour of the covering / cladding: Grey		
Material Special Information	Armaflex® Cryogenic Systems are suitable for a range of operating conditions including liquid nitrogen and natural gas installations. However, they are not recommended for application to process pipelines or equipment carrying liquid or gaseous oxygen on lines or equipment running above 15 bar pressure or above 60 °C. For detailed information or advice please refer to our Customer Service Centre.		
Applications	Pipes, ducts and vessels in industrial, petrochemical and offshore facilities.		
Assembly	The Cold Work Application Guidance manual should be consulted before assembly. Please consult our Customer Service Centre.		
Property	Value/Assessment		Special Remark
Temperature Range			
Temperature Range	max. service temperature	+ 110 °C	For operating temperatures below -110 °C the system should be installed with an anti-abrasive foil bonded to the inner surface layer. For operating temperatures below -180 °C the system should be installed with an additional gas-tight barrier to prevent liquifaction of oxygen.
	min. service temperature	- 180 °C	
Thermal Conductivity			
Thermal Conductivity	System integrity depends on properties and configuration of individual layers. Refer to individual product data sheets.		
Water vapour diffusion resistance			
Water vapour diffusion resistance	System integrity depends on properties and configuration of individual layers. Refer to individual product data sheets.		
Other technical features			
Biological / chemical behaviour	Good		Resists oil and chemicals.
UV resistance	Good		Resists UV and weathering.

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. Armaflex HT625 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. For applications related to the processing or storage of oxygen, please consult our technical services department. For temperatures above +110 °C please contact our Customer Service Centre to request the corresponding technical information. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct. However, Armacell cannot guarantee that the data are 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

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