INSULATION JUST GOT COOLER

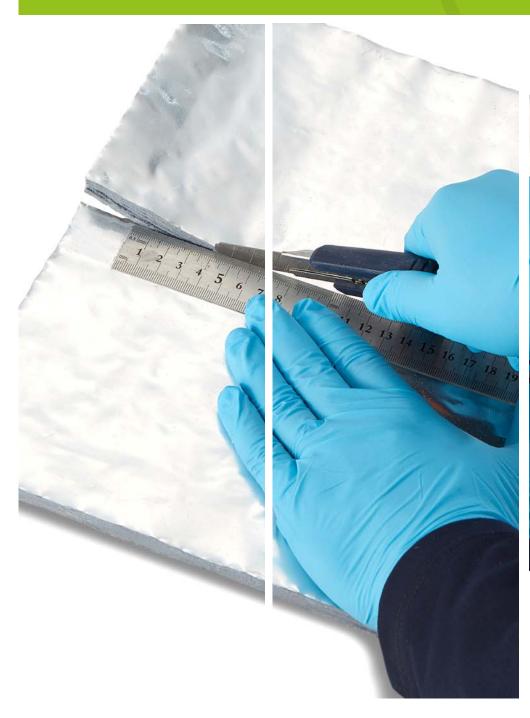
ArmaGelTM DT

Flexible aerogel insulation blanket for cryogenic and dual-temperature applications

Application Manual

www.armacell.com/armagel











Dual-

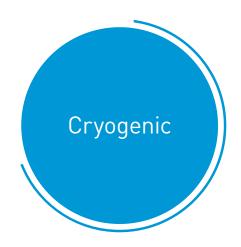
About ArmaGel DT

Welcome to the next generation of aerogel insulation technology. Flexible and bendable.

Environmentally safe. Superior thermal performance. Cryogenic conditions down to -180 °C (-292 °F).

ArmaGel DT is the reliable solution for cryogenic and dualtemperature applications.





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Before you start

Personal protective equipment (PPE) and safety considerations: ArmaGel DT will produce some amounts of dust particles - for your comfort some PPE measures are recommended.

Working with ArmaGel DT



Figure 1: Personal protective equipment

ArmaGel DT will produce some amounts of dust and fibers during handling and cutting which must be managed in accordance with local regulations. See ArmaGel safety data sheet at www. armacell.com/ armagel.

For worker comfort we recommend the PPE shown above.

Material Handling and storage



Figure 2: Correct storage conditions

ArmaGel DT rolls must always be laid / stacked sideways, never on end and always stored under cover and in dry conditions.

Preparation

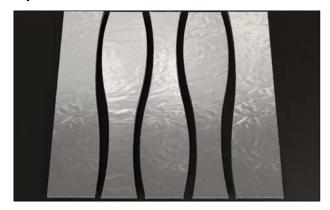
- Retractable craft (Stanley) type knife
 Set square
- Ceramic knife
- Electric / battery operated shears
 Tape measure
- Heavy duty scissors
- Straight edge

- Dividers and calipers
- Marker pens
- Pliers

Prefabrication and Preparation in the Workshop



Figure 3: Prefabrication cutting in the workshop



Prefabricated parts ready to transport to jobsite

armacell

Recommended tools for application of ArmaGel DT

Simple tools are required for measuring, marking and cutting.

Prefabricated parts for straights and fittings can be prepared and palletised. Protect from adverse weather.



Within workshop locations, as part of good housekeeping, the use of an industrial type vacuum for cleaning aerogel dust is recommended.

Site requirements

Ensure that the jobsite conditions are optimal. Protect the insulation from adverse weather.

Weather and Equipment Conditions



Ensure that piping is clean, dry and free from ice

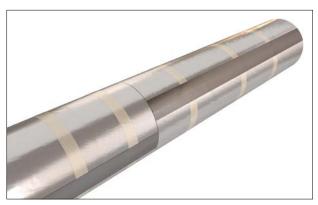
Enclosures / tenting may be required if rain or bad weather is expected during installation. Do not install ArmaGel DT if weather conditions are unsuitable (eg. rain, condensing fog, snowfall, ...).

Insulating Straight Pipe - Single Layer application



Determining the circumference of the pipe

Using a thin strip of ArmaGel DT, determine the actual outer circumference of the pipe. This will provide the actual cutting size required to perform a complete wrap around the pipe.



Application of vapour barrier tape on a longitudinal joint

Clean the foil surface with a clean dry cloth before applying the vapour barrier tape to the seams and joints.

Apply 75mm -100mm wide vapour barrier tape over the longitudinal and circumferential seams and joints.



Application of filament tape

Wrap the prepared section of material around the pipe making sure that it maintains a close fit all the way around. ArmaGel DT can be held in place by using filament tape. The tape can be applied at 200-300mm centres depending on pipe size.

Ensure no gaps are present in the insulation between all the longitudinal and circumference butt joint connections.

When an overlap is applied, it is recommended to position this pointing downward in order to create a watershed.



Application of vapour barrier tape on a circumferential joint



Insulating Straight Pipe - Single Layer application (continued)

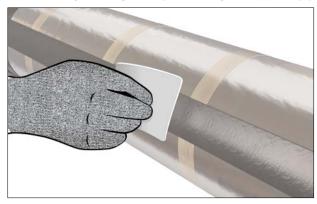


Figure 11: Using a tape card

Apply firm even pressure using a tape card ensuring the vapour barrier tape and its edges are fully adhered to the outer surface of the foil covered ArmaGel DT.

Insulating Straight Pipe - Multi-layer



Determining the circumference of insulation for multi-layering

For multi-layer applications, follow the same process as with the 1st layer, ensuring that the circumference of the insulation on each subsequent layer is correctly measured each time with a new strip of material. See the straight piping section for details.

Ensure all the longitudinal and circumferential joints are butted tightly together with no gaps.

Stagger all seams and joints on all insulation layers at least 100mm in all directions.

When an overlap is applied on the outmost layer, it is recommended to position the overlap with downward facing watershed.

Table 1: Recommended minimum pipe size for various ArmaGel DT blanket thickness on straight piping.

Pipe Size:	ArmaGel DT Insulation Blanket Thickness (mm)			
NB (INCH) (mm)	5	10	15	20
1 (35)	✓	*	×	×
2 (60)	<i>─</i>	─ ✓	<u> </u>	*
3 (89)	✓	<u> </u>	√	×
4 (114)	√	√	√	✓
5 (140)	√	✓	✓	✓
6 (169)	√	✓	√	✓
8 (219)	√	✓	✓	✓
10 & Above	√	✓	✓	✓

Notes:

- 1. \checkmark Indicates blanket thickness that can be used when bending round a given pipe size.
- 2. x not recommend.
- 3. Outer diameter (mm) of pipe size can also be used for the outer diameter of a flanged fitting when applying ArmaGel DT.

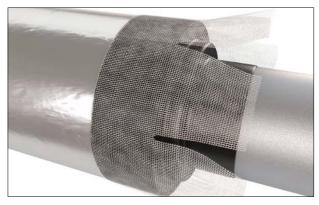
Vapour Stop Application



Application of vapour stop at insulation termination

Apply the vapour stop coating with a brush, trowel or manufacturers' recommended tool to the outer insulated surface of ArmaGel DT and pipe surface as shown. The vapour stop should extend at least 50-100mm along ArmaGel DT and the pipe surface from the end termination of ArmaGel DT.

Ensure both surfaces have consistent film thickness coverage.



Feathering of flexible reinforcement membrane (50mm sections)

Determine the size of the flexible reinforcement membrane required to cover the coated area which provides a minimum of 100mm overlap around the circumference of the insulation.

Embed the flexible reinforcement membrane into the insulation termination with a paintbrush and / or spatula.

The flexible reinforcement membrane is feathered into 50mm wide sections depending on pipe size and embedded into the coating as shown.



Figure 15: Application of vapour stop

Allow vapour stop coating to become touch dry before applying the next coat. Continue to apply additional coats until the vapour stop has reached a film thickness specified by the manufacturer.



At insulation terminations next to flanged fittings, as well as all protruding pipe connections, a vapour stop coating is required in combination with an industry standard flexible reinforcement membrane. The vapour stop is applied in multiple coats to achieve a film thickness according to the manufacturer's recommendations.

Piping Fitting - Segmented Bend



Figure 16: Fabrication of fish-tail patterns

Fabricate the appropriate fish-tail pattern from metal sheet.

With a sharp knife cut the appropriate number of segments from the prefabricated metal sheet pattern to fit the bend.



Figure 18: Segment installation

Apply the centre segments around the bend fittings, and finish with final segment (finisher) as shown in the photo. Secure all segments in place with the filament tape. Ensure all seams and joints are tightly butted.

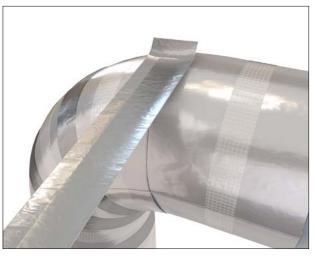
Clean the surface of the segments with a clean cloth before applying the vapour barrier tape.



Figure 17: Application of starter segment

Apply the 1st segment (starter) up to the weld of the bend fitting.

Apply the filament tape to secure the segment in place. Ensure the seam is tightly butted with no gaps.



Application of vapour barrier tape

Apply 75mm wide vapour barrier tape to all the seams and joints on all the segments of the elbow.

For bigger pipe sizes 100mm wide vapour barrier tape can be used.



Note

Final adjustments to the segments can be performed by twisting the segments carefully before applying vapour barrier tape to the seams and joints.

Piping Fitting - Segmented Bend (continued)



Figure 20: Fully secured vapour barrier tape

Apply firm even pressure using a tape card or with fingers, ensuring that the vapour barrier tape and its edges are fully secured to the surface of the foil covered ArmaGel DT.

Piping Fitting (Equal Tee) - 2 part construction



Figure 21: Measure circumference of pipe

As with the instructions for insulating straight pipe, measure the outer circumference of the tee with a thin strip of ArmaGel DT.

Measure the un-insulated outer diameter of the pipe.



Figure 22: Equal tee fabrication

Cut the insulation to the required size, circumference and length of the tee fitting. An allowance for an overlap can be provided if required.

Make the cut outs for the diameter of the bare pipe

For repeated fabrication, a metal template can be produced.



Securing insulation layer with filament tape

Apply the insulation tightly around the pipe and secure each side of the tee connection with filament tape.

Ensure the seams are tightly butted with no gaps.



Securing equal tee with vapour barrier tape

Clean the outer surface of the material with a clean dry cloth and apply 75mm wide vapour barrier tape along the linear seam.

Follow all procedures for the fixing and securing of the vapour barrier tape to the surface of the insulation.

Piping Fitting (Equal Tee) - 2 part construction (continued)

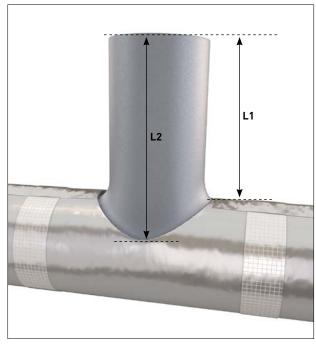


Figure 25: Determining the height of tee piece

Use the lengths L1 & L2 to create the size and shape of the required tee piece. Metal templates can be fabricated when preparing multiple tee pieces.



Figure 26: Tee piece fitting cover

Cut out the tee piece fitting cover and clean any dust from the foil surface with a clean cloth.



Figure 27: Application of tee piece fitting cover

Fix and secure the tee fitting cover with filament tape. Ensure all the seams and joints are tightly butted with no gaps.

Piping Fitting (Equal Tee) - 2 part construction (continued)

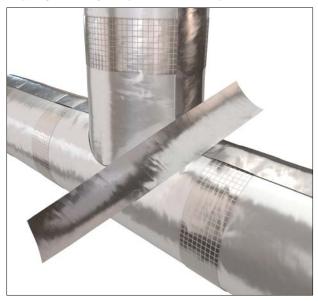


Figure 28: Application of vapour barrier tape

Using a clean cloth, clean and remove any dust from the surfaces where the vapour barrier tape is to be installed.

Seal all the seams and joints with the vapour barrier tape.



Figure 29: Securing vapour barrier tape

With firm pressure using a tape card or fingers, smoothen the vapour barrier tape following the contours of the tee connection, making sure the vapour barrier tape is fully secured down to the insulation surface.

Protrusions



Figure 30: Insulating a protrusion

Insulate the protrusion as per the insulation specification or to a minimum length of 3 times the insulation thickness of connecting pipe or equipment.

Vapor seal all seams and joints with the appropriate vapour barrier tape.



Figure 31: Application of vapour stop

Apply a thick layer of the vapour stop coating to the protrusion and the connecting insulated pipe surface which extends 100mm either side of the protrusion.



Figure 32: Application of flexible reinforcement membrane

Cut the flexible reinforcement membrane to the applicable size and feather to enable the membrane to cover the protrusion and the termination insulation end.

The reinforcement membrane should have a minimum circumferential overlap of 100mm and extend onto the pipe surface by a minimum of 50mm.



Figure 33: Embed the flexible reinforcement membrane into the vapour stop

Embed the flexible reinforcement menbrane into the vapour stop coating with a brush, then apply a reinforcement membrane strip over the feathered section connecting to the pipe surface.



Note

It is recommended to insulate the protrusion following project insulation specification.

Protrusions (continued)



Application of vapour stop

Allow the vapour stop coating to become touch dry before applying additional coats. Continue to apply additional coats until the vapour stop has reached a film thickness specified by the manufacturer.

End Caps



Figure 35: Application of end disc



Figure 36: Insulating an end cap

Cut out an end disc equal to the outer diameter of the pipe end cap. The total thickness build-up of the disc shall be the same as the thickness of connecting insulation.

Cut a piece of insulation to fit the length and circumference of the pipe and end cap.



Securing end cap with filament tape and vapour barrier tape

Wrap the insulation around the pipe and secure with filament tape.

Ensure all seams are tightly butted with no gaps. Seal all seams and joints including the end cap end with the vapour barrier tape.

Valve Body



Figure 38: Packing pipe void

For the preparation for insulating a valve body, allow the vapour stop at insulation terminations to become completely dry.

Pack out the bare pipe voids between the insulation connection and the valve flange ends plus the valve body cavity with strips of loose fill ArmaGel DT.

Secure the loose fill strips with filament tape.



Figure 39: Insulating valve body

Determine the required length of the valve body insulation cover. The length of the insulation cover should extend at least 100mm either side of the pipe end terminations or in accordance with the project specifications.



Valve body cut out

Determine the size of cut-out required for any valve spindle or connections protruding from the valve body.

Remove the required cut out from the valve body insulation cover. Clean any dust from surface with a clean, dry cloth.



Securing valve body cover with filament tape

Wrap ArmaGel DT around the valve body and secure with filament tape.

Ensure all seams and joints are tightly butted with no gaps.

Valve Body (continued)



Application of vapour barrier tape

Clean the ArmaGel DT surface and vapour seal all seams and joints with the vapour barrier tape.



Figure 43: Application of vapour barrier tape at termination

Seal the termination ends of the valve body with strips of vapour barrier tape to the outer surfaces of the terminations and the connecting insulated piping surfaces.



Cutting and feathering the vapour barrier tape

The vapour barrier tape is cut and feathered as required and secured down to the surface of the insulated pipe connections.



Application of vapour barrier tape at termination

Apply a strip of vapour barrier tape over the feathered connections. Additional strips of vapour barrier tape can be used to seal the connections when needed.

Valve Body (continued)



Completely sealed termination

Complete the sealing of termination end using vapour barrier tape.

Valve Spindle



Figure 47: Pack out spindle cavity

With thin strips of ArmaGel DT, pack out the spindle cavity to the required height as recommended by valve manufacturers or project specification. The thickness of the packing should equal the depth of the flanged spindle fitting.

Build up the insulation thickness to be same level with the flanged spindle fitting connection.

Determine the circumference of the flanged spindle fitting with a strip of ArmaGel DT.



Fabricating the insulation for valve connection

Cut out the applicable insulation material to suit the shape required for the connection - Similar to a tee connection.



Secure fitting cover with filament tape

Wrap the fitting cover around the spindle and secure with filament tape. Clean the surface of ArmaGel DT with a clean, dry cloth and seal all seams and joints with the vapour barrier tape.



Insulate the top of valve spindle

Insulate of the exposed layers of insulation at the top of the insulation cover with a bespoke disc of ArmaGel DT to complete the installation. Do not insulate over any maintenance or moving parts contained within the spindle mechanism.

Valve Spindle (continued)



Application of vapour barrier tape at all joints and seams

Using a clean, dry cloth, clean and remove any dust from the surface of ArmaGel DT.

Seal all seams and joints with vapour barrier tapes.



Vapour Stop of Valve



Clean, dry and dust free surface

Apply primary vapour barrier over the final layer of ArmaGel DT. Ensure the surface of primary vapour barrier is clean and dry before applying the vapour stop. Remove all dust from the surface with a clean and dry cloth.



Application of vapour stop

Apply the vapour stop onto the outer surfaces of the terminations and the surfaces of the connecting insulated piping.



Figure 54: Application of flexible reinforcement membrane

Pre-fabricate the flexible reinforcement membrane. Follow the procedures as indicated in the section for "Vapour Stop at Pipe Application".

Allow vapour stop coating to touch dry before applying additional coats. Continue to apply additional coats until the vapour stop has reached a film thickness specified by the manufacturer.



Figure 55: Application of vapour stop at valve spindle

Apply the vapour stop onto the termination end of the spindle insulation cover.

Vapour Stop of Valve (continued)



Figure 56: Application of the flexible reinforcement membrane at spindle insulation

Apply and embed the flexible reinforcement membrane into the vapour stop.

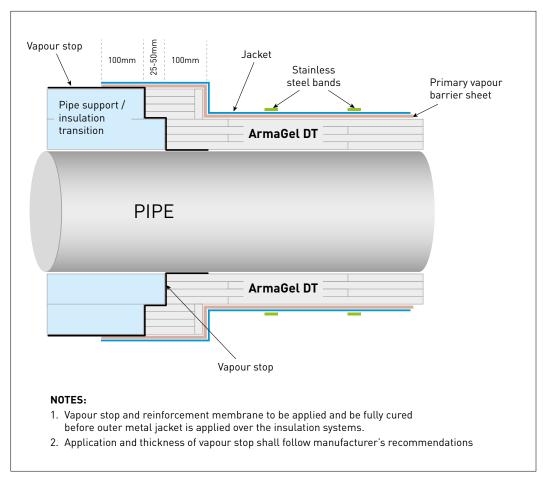


Figure 57: Application of vapour stop at spindle insulation termination

Smoothen the vapour stop to an even film thickness using the appropriate tools.

Allow the vapour stop coating to touch dry before applying additional coats. Continue to apply additional coats until the vapour stop has reached a film thickness specified by the manufacturer.

Vapour seal - rigid pipe supports/insulation transition



Vapour stop at pipe support or insulation transition

Ensure that ArmaGel DT is tightly butted to the surface of the pipe support or insulation transition.

Clean away dust from the surface of the insulation and from the pipe support termination using a clean, dry cloth.

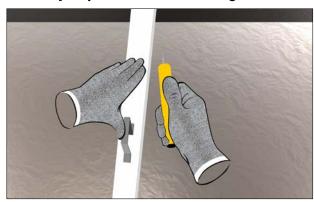
Apply a thick even coat of the vapour stop coating to the surfaces of the ArmaGel DT and the pipe support or insulation transition areas.

Embed the flexible reinforcement membrane into the vapour stop, and allow to touch dry.

Allow vapour stop coating to touch dry before applying the next coat. "Continue to apply additional layers until the vapour stop has reached a film thickness specified by the manufacturer".

The butyl foil faced vapour barrier acts as a primary vapour barrier and provides certain degree of both mechanical / puncture protection during the installation of metal jacket.

Primary Vapour Barrier - Straights



Cutting butyl foil faced vapour barrier

Primary vapour barrier – 1.2mm thick self adhering butyl foil faced vapour barrier sheet shall be applied on the final layer of ArmaGel DT before the installation of the cladding.

For straight sections, roll out the material on a clean, dry and flat even surface (work bench).

Measure the outer surface circumference of the insulated part – allowing a minimum of 50mm for the overlap in all directions.

Using a straight edge and a sharp retractable craft knife, cut the primary vapour barrier sheet to size.



50mm overlap of butyl foil faced vapour barrier at joints

Clean the outer surface of ArmaGel DT with a clean, dry cloth to remove any dust before applying the primary vapour barrier sheet.

Remove the release liner from the back of the primary vapour barrier sheet and wrap it tightly around the insulated pipe. The overlap for longitudinal and circumferential joints shall be at minimum of 50mm.



Figure 61: Overlap at longitudinal and circumferential joints

Primary Vapour Barrier - Straights (continued)



Overlap to be fixed down firmly and creases can be removed by using a tape card

Creases can be removed by using a tape card. This ensures that the voids in the creases are fully bonded down to the substrate underneath.



Fixing seams with small plastic roller

The overlap is fixed with firm even pressure using a small plastic roller. Make sure the contacting area of the overlap is clean, dry and free from dust.

Longitudinal overlaps should be positioned to the side with the seams downward facing to provide a watershed.

Primary Vapour Barrier - Bend



Primary Vapour Barrier Segments

Fabricate the appropriate fishtail pattern from metal. The segments are fabricated to include for a 50mm longitudinal overlap and 10mm circumferential overlap.

Using a sharp cutting tool such as a blade or knife, cut the appropriate number of segments to complete the bend.

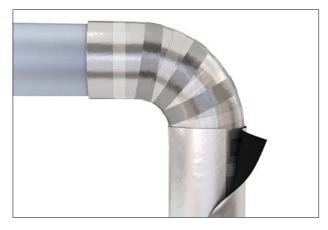


Figure 65: Application of the first bend segment

Start the installation of the primary vapour barrier by applying the starter segment. Fix and secure in the same way as the straight sections of material.



Figure 66: Secure overlap with roller

Fix down the overlap (min. 50mm) with firm pressure using a roller.



Figure 67: Application of primary vapour barrier segments

Apply the remaining centre segments.

Each segment should overlap around the circumferencial edges by a minimum of 10mm.

Primary Vapour Barrier - Bend (continued)



Applying last segment of primary vapour barrier

To complete the fitting, apply the final finishing segment.



Securing overlaps with roller

Using a roller, apply even pressure to all of the overlap seams and joints. Ensure all overlaps are fully secured down without any gaps.

Primary Vapour Barrier - Equal Tee



Figure 70: Measuring equal tee

For the main body part of tee cut the primary vapour barrier to the required sizing circumference and length of the body tee section as shown. Allowance for a 50mm overlap to be added.



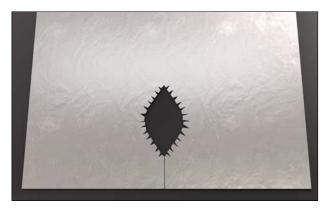
Application of primary vapour barrier on equal tee

Position the primary vapour barrier in the correct positon ready for fixing down to the insulation surface.

Peel back the release paper of the primary vapour barrier and fix it to the insulation surface.

Continue the application of the primary vapour barrier in the same way as with the straight sections.

Creases and crinkles can be removed by using a tape card during the application. This ensures that the voids in the creases are fully bonded down to the substrate underneath.

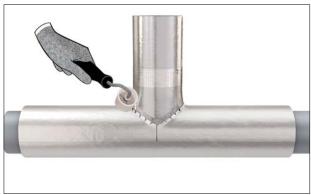


Template of primary vapour barrier for equal tee

Depending on the positioning of the Tee, the longitudinal overlap shall be considered when fabricating the body tee section.

Make the cut outs for the diameter of the insulated pipe tee.

A metal template can be produced for multiple fittings.



Securing joints with roller

Using a roller, apply even pressure to all of the overlap seams and joints. Ensure all overlaps are fully secured down without any gaps.

Primary Vapour Barrier - Equal Tee (continued)



Determining the height of tee piece

Cut the primary vapour barrier to the appropriate size and shape.

Use the lengths L1 & L2 to create the size and shape of the required tee piece. Metal templates can be fabricated when preparing multiple tee pieces.



Figure 76: Securing joints with roller

Using a roller, apply even pressure to all of the overlap seams and joints. Ensure all overlaps are fully secured down without any gaps.



Application of primary vapour barrier on tee

Apply the primary vapour barrier similar to the method as for straight pipe.

Hot Insulation with Line Temperature from Ambient to 250 °C

For hot insulation with line temperature from ambient to +250 °C, glass reinforced filament tapes, stainless steel wire with diameter of 1mm, or stainless steel bands with 19mm wide x 0.5mm thick can be used to secure the insulation layer(s).

Glass reinforced filament tapes shall not be used for the securement of insulation layer(s) with interface temperature above 70 °C unless otherwise specified by Project Insulation Specification or Project Engineer.

The seams and joints of insulation do not require sealing with the vapour barrier tape unless otherwise specified by the projects insulation specification or project engineer.

No additional primary vapour barrier is required for the construction of the insulation systems.

No vapour stop is required for the construction of the insulation systems.

Dual-temperature Insulation with Line Temperature from -40 °C to 250 °C

For dual-temperature insulation with line temperature operating in cyclic mode from -40 °C to +250 °C, glass reinforced filament tapes, or stainless steel bands with 19mm wide x 0.5mm thick can be used to secure the insulation layer(s).

Glass reinforced filament tapes shall not be used for the securement of insulation layer(s) with interface temperature above 70 °C unless otherwise specified by Project Insulation Specification or Project Engineer.

Only seams and joints of the last layer of ArmaGel DT shall be sealed with vapour barrier tape unless otherwise specified by the Projects Insulation Specification or Project Engineer.

The primary vapour barrier sheets shall be applied over the last layer of ArmaGel DT prior to the installation of the outer jacketing (metal / UVGRP cladding) unless otherwise specified by the project insulation specification or Project Engineer.

Refer to Project Insulation Specification or Project Engineer for the needs and the construction details of vapour stop.

Jacketing and Finishing

Jacketing and Finishing

is compatible with all forms of jacketing such as metal cladding, polymeric covering (such as Arma-Chek R), GRP and multi-ply laminate cladding system.

The outer cladding should always be applied according to manufacturer's instructions and in

Standoffs or a sacrificial layer using closed cell foam materials shall be applied if screws or rivets are

Care shall be taken not to damage the insulation system during installation of the rigid jacket.

Insulation and Accessory Materials List

System Component & Suggested Products	Material Description	Areas of Use
Insulation ArmaGel DT 5mm sheet ArmaGel DT 10mm sheet ArmaGel DT 15mm sheet ArmaGel DT 20mm sheet Primary vapour barrier -	ArmaGel DT 5mm sheet ArmaGel DT 10mm sheet ArmaGel DT 15mm sheet ArmaGel DT 20mm sheet ArmaGel DT 20mm sheet ArmaGel DT 20mm sheet imary vapour barrier -	
 Foil faced butyl sheet Polyguard / Insulrap 50 Sam Hwa – BUSEAL WRAP 12 Foster C.I. Wrap 50 STI – STI 5000 Temati – Tembutil-IF 	A self adhesive 1.0 – 1.2mm thick , vulcanising butyl rubber sheeting wrap, at one side backed with a multiplex foil, as per project/site requirement.	Used as primary vapour barrier. Applied on the outer surface of last layer of ArmaGel DT insulation, prior to the fitting of metal cladding.
Vapour barrier tape • Venture Tape - 1517CW • Temati - VaporStop Foil/Tape • Venture Tape - 1555 CW	Aluminium foil, or multiply of aluminium and polyester film provided on one side with an adhesive layer on the basis of synthetic rubber and synthetic resin, and covered with a protective foil. The compatibility between the foil tape and primary vapour barrier should be checked.	For the sealing of all seams and joints of ArmaGel DT insulation where the surface temperature is not lower than -40°C.
Vapour barrier tape • Polyken 360-17 • Venture Mastik tape 1580	A self adhesive 0.5 - 1.0 mm thick , vulcanising butyl rubber mastic adhesive tape, at one side backed with a multiplex foil.	For the sealing of all seams and joints of ArmaGel DT insulation where surface temperature is below -40°C.
Vapour stop • Foster 60-38/39* • Foster 60-95/96* • Foster 90-66** • Foster 90-61** • Sam Hwa SHC 107-61**	Elastomer based vapour stop sealant - to be used with the flexible reinforcement membrane.	Used as vapour stop sealant for insulation terminations next to flanged fittings, cap ends, protrusions, valve and flange and etc. *Used for service temperature down to -40 °C. ** Used for service temperature down to -196 °C

Insulation and Accessory Materials List (continued)

System Component & Suggested Products	Material Description	Areas of Use	
Flexible Reinforcement Membrane			
• Mast -A- Fab 42-22.	Woven glass scrim reinforced chlorosulfonated polyethylene	Used as reinforcement	
• Chil-Glas	(CSPE) membrane or similar polymeric compound materials.	membrane for the construction of vapour stop.	
Scrimtex (N 10)			
Self-Adhesive synthetic (Filament) tape			
Scotch 893	Glass fibre-reinforced synthetic tape 25, 40 & 50mm wide.	Used to secure ArmaGel DT insulation layers around piping and applicable fittings.	

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ABOUT ARMACELL

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 3,135 employees and 24 production plants in 16 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.

