



**ContraTherm®**

## **C25 and C55 Subsea Insulation Engineered Components**

For moulded products such as half shells, dog houses and shrouds

[www.advancedinsulation.com](http://www.advancedinsulation.com)



# ContraTherm® Engineered Components

ContraTherm® C25 and ContraTherm® C55 subsea thermal insulation can be moulded into pre-designed shapes to suit the equipment due to be insulated

Both ContraTherm® C25 syntactic silicone subsea insulation and ContraTherm® C55 syntactic phenolic subsea insulation can be moulded to provide removable insulation solutions in a range of shapes and sizes. These range from relatively simple moulded panels, blocks or half-shell C-sections, up to the most complex connector cover arrangements such as ROV installed 'doghouse' mouldings. Such products are used where retrofit or removable insulation is required or where the insulated structure requires articulation that cast in place insulation would deny.

## Features and Benefits



- + Use of engineered component insulation can reduce on-site application times and/or provide for articulation or removable solutions where later access may be required.

- + Each design is engineered to match the dimensions of the component to be insulated and is produced in highly accurate moulds.



- + More complex components can be delivered in their final assembled condition in advance of final installation.

- + The ambient curing process with low internal stress concentration allows the production of large simple piece mouldings eliminating 'joint risk'.



- + Low material shrinkage due to the ambient curing process enables the production of high quality, dimensionally accurate mouldings.

## Certifications

- + ContraTherm® is one of the most extensively tested and qualified subsea insulation materials in the world.
- + ContraTherm® C25 is fully qualified to 3000msw service at 150°C service temperature.
- + ContraTherm® C55 is fully qualified to 3000msw service at 185°C service temperature.
- + Extensive laboratory testing and large scale testing has been carried out to demonstrate ContraTherm® C25 and C55 are robust insulation systems.
- + ContraTherm® is qualified to the new International Standard ISO 12736.

## Production Method



ContraTherm® pre-moulded insulation is engineered to match the dimensions of the component to be insulated.

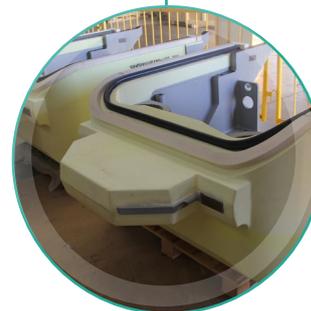
- + ContraTherm® C25 is produced in highly accurate injection moulds.

- + ContraTherm® C55 is produced in highly accurate compression moulds.



The material properties of ContraTherm® C25 and C55 allow intricate single piece mouldings to be manufactured which eliminates any risk associated with potential weak spots at the joint interfaces of subassemblies.

Shapes are fastened to the structure by the most suitable means, from simple strap banding arrangements to complete ROV operated closure systems, and sealed as appropriate to minimise water flow and retain insulation performance.



Associated bespoke steel fixtures, seals and other accompaniments required for specific insulation component designs can be supplied.

