



CASE STUDY - OFFSHORE INDUSTRY - THERMAL BARRIER

Background

The thermal barrier is located in the offshore wellhead positioned on the seabed. At the concept stage, aluminium had been identified as a possible material for this unique application. However the thermal inefficiency of aluminium became an issue and as a solution Devlon V grade was selected due to its excellent thermal properties.

Disadvantages

- Aluminium would have dissipated heat, potentially leading to hydrate formation in the flowspool
- Aluminium corrodes
- Cost

Solution

Devol developed a thermal barrier in our Devlon material which allows ROVs to dock into the wellhead to remove the flowspool without the needs to pull the tree completely.



Advantages

- Slows down/prevents heat loss in the flowspool should the well be shut in for up to 12 hours
- Prevents hydrate formation and thus maintains flow when the well re-opens
- Eliminates the need to pull the tree to replace the flowspool, therefore giving major cost savings
- Lightweight and non-corrosive solution
- Cost effective solution for what could have been a major problem