

Solutions offered by the design team have included;

- ECS component insulation
- Fuel system insulation
- Duct insulation
- Fire shields
- Thermal barriers
- Fabric insulation
- Metallic insulation
- Composite insulation

Darchem Insulation Systems commands 60 years experience in design and manufacture of high performance thermal solutions for the aerospace, defence, marine and power generation industries. As your "one-stop-shop" DIS Design can support you through every stage of your product's life cycle. Your thermal management needs can be resolved quickly and readily, drawing upon the vast knowledge and expertise of our design department. We offer complete design solutions, insulating high temperature engine systems using a variety of materials and CAD/thermal analysis software packages. Services range from bespoke one off parts to complete long term repeat production runs.

Working with your own engineers, we have access to state of the art CAD systems - SolidWorks, Catia V4 and V5 and AutoCAD. We employ advanced mechanical and computational analysis tools including MathCAD and Solidworks Simulation for validation of design and optimising for performance, cost and fit.

The design team's proven record demonstrates ability to innovate; with awareness of sustainable and safety philosophies in all areas of design, and a sympathetic approach to Design for Manufacture/Assembly incorporating necessary Value Engineering methodologies. The team have hands on skills in the workshops, essential for communicating ideas and developing prototypes. Solutions can be reverse engineered using existing components and available systems.

Our own independent, accredited test facility ensures that our systems have been proven before production commitments are made.

## Thermal Engineering

As part of DIS policy of Continuous Improvement we constantly search the world for new materials that enable us to deliver innovative thermal solutions that are both functional and cost effective. Our thermal engineering team offer a full engineered solution for your heat management needs, from concept through to final design, test and build.

