



Thermal Protection

Darchem Thermal Protection is a world leader in the development of passive fire protection systems for the oil, gas, petrochemical and nuclear industries. Darchem's range of systems provides protection against the most arduous of fire requirements.

Systems include:- Darmatt, Darmatt J120, Darshield, and Darmet Radiant Heat Shielding.

In the nuclear market Thermal Protection has designed and developed insulation and passive fire protection products for both land based and marine nuclear facilities. The company has provided products for over 140 nuclear facilities worldwide and is recognised as a market leader in nuclear insulation systems.

Products include Darmet and KM1

CAD systems used include AutoCad, NavisWorks Pro, Autodesk Inventor

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Introduction to Darchem Engineering

Darchem Engineering is a world class engineering company providing products and services primarily to meet the needs of its customers for engineered solutions to high temperature/ thermal engineering problems.

From its inception in 1954 the company had developed into a world leader in its chosen fields. Darchem provides specialist expertise and responsiveness by grouping its employees within designated business units that are strategically organised to service customers and markets with maximum efficiency.

The company has its head office at Stillington, near Stockton-on-Tees in the North East of England, with a further facility at Gloucester in the South West of England. Both have excellent access to major road, rail, sea and air routes.

Quality Accreditation's and Environmental

Darchem holds BS EN ISO 9001:2000 (including AS/EN 9100) together with a wide range of specific company approvals from our worldwide customer base. These include Airbus, Boeing, Rolls Royce, Pratt and Whitney(USA), Pratt and Whitney (Canada) as well as specific Nadcap process approvals. Darchem is also approved to EASA part 21(G) and Part 145

The company is environmentally accredited to BS EN ISO 14001 at both its facilities and is committed to continuous improvement in preventing and reducing pollution together with minimising the environmental impact of our activities, processes and services.



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**Stillington,
Stockton-on-Tees**
60,000m²



Gloucester
5,000m²



Darchem



"Taking the heat out of your problems"

www.darchem.co.uk



Insulation Systems

Darchem insulation systems is a world leader in the design and manufacture of lightweight engineered thermal insulation systems for the aerospace, construction, industrial and high performance vehicle markets. UK facilities are located at Stillington, Stockton-on-Tees and Gloucester.

Insulation Systems provides products for the majority of commercial aircraft including the new Airbus A380 and the Boeing 737. Programmes include the high volume single aisle European and North American aircraft series. In addition the majority of aero engine manufacturers have selected Darchem systems for their civil and military engine programmes.

Typical aerospace applications include thrust reverser, jet pipe, ducting and braking insulation systems.

Insulation systems provides optimised solutions for today's heat management problems and, with over 50 years experience, provides a dedicated solution for each application.

High performance automotive and construction applications include exhaust manifolds, heat shielding and turbo-charger insulation systems.

Insulation Systems utilise the latest in insulation system design, thermal stress analysis and fire engineering and testing software together with the unrivalled expertise of our skilled workforce to produce products which are second to none.

Through Darchem Flare we offer a UKAS accredited and CAA approved fire test facility.

CAD systems include Catia V4 V5, Solidworks, Flow works, Mathcad and Auto Cad.

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Darchem Aerostructures has unrivalled expertise in the design and manufacture of aerospace gas turbine exhaust systems.

The unit is a major force in the development and manufacture of fabricated aerospace components which are subject to extremes of temperature. Customers include aircraft and engine companies seeking high temperature expertise.

Expertise in creating complex assemblies by the manipulation and joining of titanium, stainless steel and high nickel base alloys ensure world leadership in the manufacture of exhaust mixers, cones and exhaust systems. Typical components include jet pipes, nozzles, heat shields, aerodynamic fairings and other critical high temperature components and assemblies. Programmes range from business jets and regional aircraft through to the latest wide body aircraft.

Software systems include Catia V4 V5, Inventor, Robot Studios, Radan, Auto Cad and Fastblank.

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Aerostructures



Turbine Structures

Turbine Structures designs, develops and manufactures gas turbine intake and exhaust systems, incorporating Infra Red Suppression, for naval applications. Expertise gained here has led to the manufacture of a range of gas turbine and diesel intake and exhaust systems both for land based and offshore units. Naval activities include the UK's latest CVF aircraft carrier and destroyer programmes.

Turbine structures is also a specialist in the design, manufacture and installation of welded metallic honeycomb structures, primarily for the aerospace industry. These range from wind tunnel flow straighteners and intake turbulence control screens, in which it is the world leader to EMC shielding and turbine blade tip seals.

Turbine structures is also a leader in the fabrication of complex assemblies for the nuclear power markets.

Software systems include Catia, AutoCad, Radan, CFX Computational Fluid Dynamics, MSC Nastran for Windows.

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