



ADVANCED THINKING IN ADVANCED MATERIALS

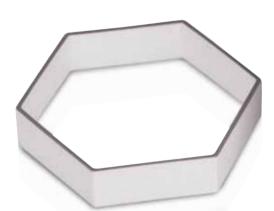
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ABOUT US

MORGAN ADVANCED MATERIALS IS A GLOBAL ENGINEERING COMPANY OFFERING WORLD-LEADING COMPETENCIES IN MATERIALS SCIENCE, SPECIALIST MANUFACTURING AND APPLICATIONS ENGINEERING.

WE FOCUS OUR RESOURCES ON THE DELIVERY OF PRODUCTS THAT HELP OUR CUSTOMERS TO SOLVE TECHNICALLY CHALLENGING PROBLEMS, ENABLING THEM TO ADDRESS GLOBAL TRENDS SUCH AS ENERGY DEMAND, ADVANCES IN HEALTHCARE AND ENVIRONMENTAL SUSTAINABILITY.

MORGAN IS WORKING TO SOLVE THE CHALLENGES OF A RAPIDLY DEVELOPING WORLD

WHAT DIFFERENTIATES US?

- Advanced material science and processing capabilities
- Extensive applications engineering experience
- A strong history of innovation and reinvention
- Consistent and reliable performance
- A truly global footprint
- We find and invest in the best people



We work collaboratively to develop materials, components and sub-assemblies to address specific customer needs. The parts that we make are often required to play a critical role in our customers' products and systems, helping them to perform more efficiently, more reliably and for longer, sometimes in the most demanding environments.





Morgan Advanced Materials is a leader in its chosen markets with a global reputation for leading edge materials science and elegant engineering solutions. We maintain consistently high standards of operational excellence through the outstanding technical capability of our people and a culture of continuous improvement.

The group has significant operational presence all the world's major regions, serving customers in more than 100 countries. Our headquarters is in the UK and the company is listed on the London Stock Exchange.



LISTED ON THE LONDON STOCK EXCHANGE

OVER 10,000 EMPLOYEES

OVER 90 SITES WORLDWIDE





HEALTHCARE

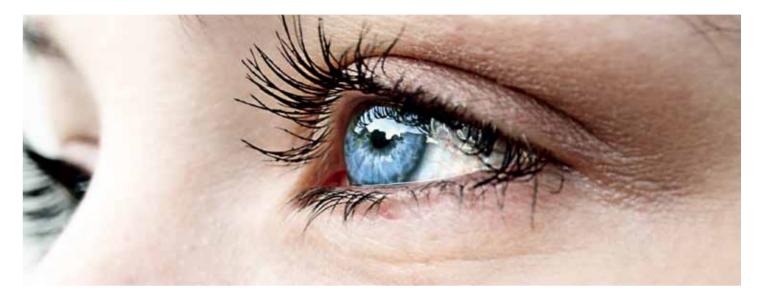
Morgan Advanced Materials produces components used in medical monitoring and diagnostic instrumentation and tools for treatment and surgery.

Medical engineering demands the highest standards of precision, accuracy, reliability and performance. Equipment manufacturers and medical professionals choose our materials for their exceptional physical characteristics.

Our experts collaborate with medical scientists and device manufacturers to source, refine and engineer materials that facilitate specific advances in diagnostics, surgery, therapy and treatment. We make high quality ceramic implants, components and complex assemblies for a wide range of medical devices.

Over six decades of experience has given us a good understanding of the uniquely demanding environment in which equipment for the global medical market is developed. Our capability in materials innovation and quality manufacturing allows us to produce parts that are optimised to meet precise complex physical and chemical specifications.

The result is outstanding, reliable performance in each application, from ceramic joint replacements and pacemakers implanted inside the human body, to ultrasonic scalpels for surgery and high-resolution ultrasonic imaging equipment.

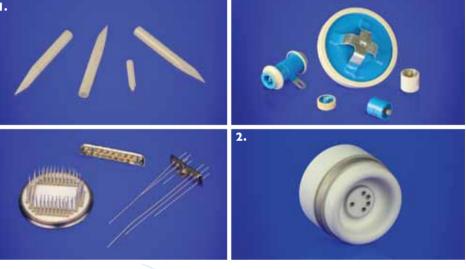


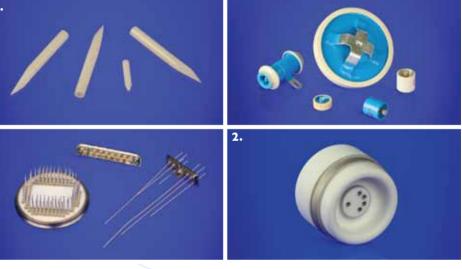
INNOVATING IN MEDICAL DEVICES AND HEALTHCARE INSTRUMENTATION

TYPICAL APPLICATIONS

- Air In-Line Sensors
- Blood Analysis / Cytometry
- Cochlear Implants
- Lasers
- Medical Ultrasound
- MRI & CT Scanners
- Orthopaedic Implants
- Pacemakers
- Prostheses
- Radiation Therapy
- Surgical Instruments
- Ultrasonic Dental Descalers
- Ultrasonic Scalpels
- X-Ray Equipment







I. IMPROVING TUMOUR TREATMENTS Our precision-engineered tips are being used in a new treatment to ablate tumours. The minimally invasive procedure means that patient trauma following surgery is reduced and post-operation recovery times are significantly shorter.

2. X-RAY AND CAT SCANNERS

Our components are increasingly used in X-ray and CAT scanning machines in preference to traditional glass. The high-purity, engineered components help equipment manufacturers produce machines that offer longer life, higher power and better performance.







PETROCHEMICAL

Morgan Advanced Materials makes critical components for tough assignments in the global petrochemical industry.

The oil and gas industry present some of the world's harshest operational environments for equipment and people. Our materials and products are routinely chosen to fulfil critical applications on and offshore in exploration, drilling and downstream processing.

It is the resistance of our materials to chemical and physical wear, corrosion and extreme heat that makes them ideally suited for use in these severe-duty applications. We use them to engineer furnace lining systems, hard-wearing parts for pumps, drilling machinery, specialist fluids handling equipment and complete fire protection systems. The integrity of the components we manufacture is often fundamental to the safety and efficiency of high-value hydrocarbon extraction and processing operations. For example, our precision machining of silicon carbide composite mechanical seals dramatically reduces interface leakage in demanding conditions, allowing operators to work at elevated contact pressures.

Our High temperature insulation fibre lines furnaces and ducts, providing excellent resistance to demanding atmospheres and mechanical stresses to extend furnace life and improve energy efficiency.



DEVELOPING HARDER WEARING AND LONGER LASTING PRODUCTS FOR THE PETROCHEMICAL INDUSTRY

TYPICAL APPLICATIONS

- Ammonia Reformers
- Drill Bits
- Ethylene Furnaces
- Fire Protection
- Fired Heaters
- Flow Sensing and Metering
- Fluid Catalytic Cracking Units
- Gas Detection
- High Performance, Wear Resistant Pump Components
- Mineral Insulated Cables
- Mud Pump Linings
- Oil & Gas Extraction
- Sand Separation
- Thermal Insulation





Morgan provided 10,000m² of FireMaster[®] Marine Plus blanket for living quarters of the fixed processing platform on Gudrun oil field. Superior thermal conductivity allowed a very lightweight installation with a high standard of protection.

2. PETROLEUM INDUSTRY EQUIPMENT

Our Seals and Bearings business produces Pgs-100 graphite-loaded sintered silicon carbide, which is the material of choice for a wide range of petroleum industry equipment, including use with highly corrosive sour crude at 700°F, conditions no other material can currently perform in.





TRANSPORTATION

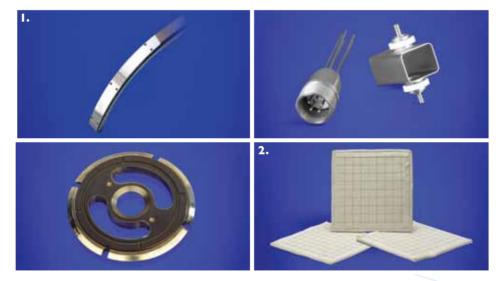
Morgan Advanced Materials makes high performance products to exacting standards for aerospace, automotive, marine and rail applications.

We have long-standing experience in the transport sector making components and sub-assemblies for many and varied applications. Our superior materials and advanced manufacturing capabilities offer consistency and reliability in cost effective production quantities from small runs to high volume.

Over the years we have applied our materials know-how to solve engineering challenges and enhance performance for air, sea and land transport systems. For example, we have helped to improve reliability in high-speed rail and on long haul freight trains that must operate consistently in widely varying climatic conditions. We have made precision parts used in the manufacture of aero engine turbine blades and critical components for in-flight re-fuelling and satellite positioning systems.

In the automotive sector we have contributed to the development of fuel-efficient vehicles with lightweight components and intelligent fuel sensors. And we are working on projects to help improve the efficiency of battery technology for electric cars.





50%

arranty claims

I. HIGH-SPEED RAIL SYSTEMS

Modern rail systems have huge potential to make major savings against a backdrop of uncertain energy prices. Morgan is capitalising on significant global growth in this sector, supplying carbon pantographs for high-speed rail and city metro systems.

2. AEROSPACE FIRE BARRIERS

Min-K[®] F382 and Min-K F351 materials developed by our Thermal Ceramics business are used for fire barriers in challenging high-temperature aerospace applications, providing 20-25% lower thermal conductivity than the industry standard F182 and F150 microporous materials.

IMPROVING EFFICIENCY AND RELIABILITY IN GLOBAL TRANSPORTATION

TYPICAL APPLICATIONS

- Acoustic Insulation
- Braking Systems
- Engine Bearings and Seals
- Engine Monitoring
- Exhaust Systems
- Firewall Fire Protect Insulation
- Fuel Injection Plungers
- Fuel Level Sensors
- Heat Shields
- Hermetically Sealed Engine Sensors
- Investment Casting
- Marine Fire Protection
- Protective Wear Coatings
- Thermocouple Housings
- Thrust Reversers
- Wear Resistant Window Screens





ELECTRONICS

Morgan Advanced Materials makes components that are helping the electronics industry in its drive towards higher performance and reliability in smaller, lighter, more robust products.

The pace of development in the market for all types of electronic devices continues to create opportunities for innovation in engineering design and production, as well as challenging price-performance targets. We have been able to help leading electronics manufacturers exploit the unique properties of our advanced materials to achieve competing demands on size, functionality and cost.

We work closely with customers to design and manufacture small or intricate components,

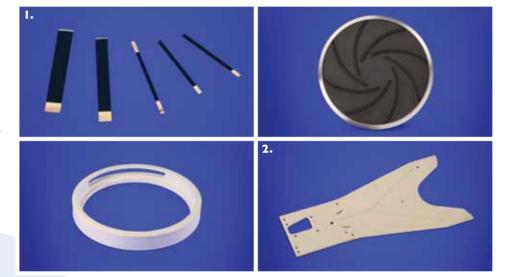
achieving explicit electrical and thermal properties within restricted size and shape constraints. We are able to offer durable piezoceramics, high quality dielectric materials and specialised metallisation techniques. Our products are found in mobile phones, laptops, high definition televisions, lighting controls, laser instrumentation, microwave and high-voltage systems.

In semiconductor and LED substrate fabrication, our high purity materials and controlled microstructures have brought significant yield improvements in specialist processes for ion implantation, epitaxy and compound crystal growth.

ENGINEERING HIGH-PERFORMANCE, PRECISION PRODUCTS FOR THE ELECTRONICS SECTOR

TYPICAL APPLICATIONS

- Bar Code Scanners
- CMP Pad Conditioning
- Fish Finders
- HDD Dual Stage Actuators
- High Speed Document Scanners
- High Speed Inspection and Sorting Devices
- Lasers
- LED Growth
- Photolithography
- Power Tubes (Electron Tubes)
- RF / wireless inductors
- Semiconductor Processing
- Surveillance and Security Systems
- Transmitting Tubes







I. DATA STORAGE FACILITIES

Morgan is manufacturing piezoceramic actuator plates for hard disk drive storage in devices from Servers to Laptop Computers. Our ceramic materials enable the head to be positioned with greater accuracy allowing for higher capacity without increasing disk size.

2. SEMICONDUCTOR COMPONENTS

Our material expertise and custom process solutions are helping semiconductor device manufacturers to reduce the line width by 50% (45nm to 22nm in 2016) with ultra-pure, precision-machined graphite components used in the manufacturing processes.







ENERGY

INCREASING POWER AND SUSTAINABILITY IN THE ENERGY SECTOR

Morgan Advanced Materials develops products for power generation and distribution from renewable and traditional sources. We also supply a range of insulation products that provide heat management solutions.

Our materials and products have a strong reputation for performance and reliability in the energy sector, built on years of experience supplying products across the electricity supply chain. We continue to work at the heart of this evolving sector developing components and subassemblies for generators, distributors and users of energy from traditional and renewable sources.

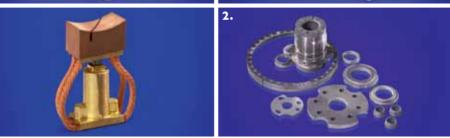
We are involved in many and diverse energy-related projects from piezoceramics for energy harvesting technologies to high quality capacitance for high voltage systems.

Increasingly, our materials technology is employed to allow more efficient use of energy by reducing friction, providing better insulation and enabling new technologies. Our patented silicon carbides and graphite composites are specifically designed to reduce friction for better reliability and energy efficiency. Our advanced insulation materials are used to enhance the purity of silicon for solar cell production.



plants for HRSG stack applications









TYPICAL APPLICATIONS

- Boiler Casings
- Brushes for Electric Motors
- Cable Insulators
- Fuel Cell Components
- Gas Meters
- HRSG Stacks
- Industrial Gas Turbines
- Live Line Indicators
- Nuclear Reactors
- Oil Well Submersible Pumps
- Polycrystalline Silicon Growth
- Solar Panel Manufacture
- Water Meters
- Wind Turbines







I. HIGH-TEMPERATURE PROCESSING

Lining materials from Morgan are used in insulating systems for high-temperature processing equipment in chemical plants and hydrocarbon refineries. This can have a significant effect in reducing energy usage, costs and greenhouse gas emissions.

2. ELECTRICITY SUPPLY

We are providing low-friction high-strength seal face components that significantly improve the energy efficiency of water pumps allowing drinking water to be delivered more extensively in developing countries.





SECURITY AND DEFENCE

Morgan Advanced Materials supplies precision-engineered materials, components and assemblies to meet the exacting standards of the international defence and security markets.

Our superior materials technology and manufacturing capability deliver real performance benefits in security and defence applications, from military hardware to surveillance equipment. Our lightweight body and vehicle armour technology and our fire insulation products protect civilian, military and naval personnel around the world.

We are a global leader in lightweight armour systems for the protection of people and property. Our vehicle armour combines advanced ceramics with high-technology composites to create systems that are typically half the weight of the equivalent in armoured steel. They are easier, faster and more costeffective to deploy and they demonstrate higher ballistic performance.

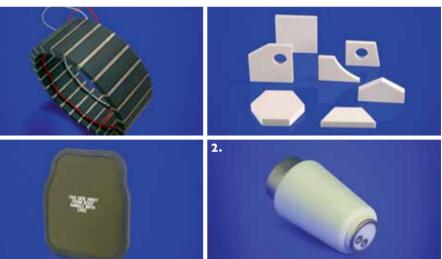
Reliability of products, materials and supply is a fundamental requirement in this market. We are a critical resource supplier for the UK Ministry of Defence providing tactical wheeled vehicles, equipment and armour, and a Tier 2 supplier of ceramic body armour plates to the US Department of Defense.



ENHANCING **PROTECTIVE QUALITIES** FOR SECURITY AND DEFENCE APPLICATIONS

TYPICAL APPLICATIONS

- Aircraft Armour
- Bomb Disposal Suits
- Composite Arrays
- Electronic Counter Measures
- Fingerprint Scanners
- Ground Vehicle Window Armour
- Gyroscopes
- Image Intensifiers
- Nuclear Submarines
- Security Scramblers
- Solider Protection Systems
- Sonar Buoys
- Torpedo Guidance
- Traveling-wave tubes
- Vehicle Up Armouring Systems



I. MILITARY PROTECTION

by Morgan Advanced Materials are being used to protect troops and military vehicles from the threat of improvised explosive devices and machine-gun fire.

2. SECURITY SCANNERS

Metallised aluminas from Morgan Advanced Materials enable security scanners to operate with higher accelerating voltages. As a result equipment manufacturers can build smaller X-ray tubes with a much better resolution and faster throughput speed for luggage, cargo and parcel inspection.

New ceramic protection systems developed



spot power



INDUSTRIAL

Morgan Advanced Materials engineers, designs and manufactures products for use in the most challenging processes and manufacturing environments.

Our advanced materials offer a comprehensive range of characteristics, including superior thermal insulating properties, dimensional stability, strength and stiffness.

With them we engineer components that are highly resistant to chemical and physical wear, corrosion and extreme heat, for use in industrial processing and demanding manufacturing environments. Many of the industrial projects we get involved in exploit the properties of our advanced materials to contribute to improved process efficiency, productivity and reduced waste and environmental impact.

For example in the mining industry our superior advanced brush material technology has facilitated reliable equipment operation in harsh environments, even in the very deepest mines in the world. Our advanced crucible technology is helping to improve the efficiency of energy intensive melting processes used in metal casting, through increased strength and longer life. Our insulating products allow manufacturers to control their thermal processing operations for optimum throughput.

IMPROVING PERFORMANCE IN HIGH-TECH INDUSTRIAL PROCESSES

TYPICAL APPLICATIONS

- Bauxite Refineries
- Electric Motors
- Ferrous and Non-Ferrous metal processing
- Furnace and Boiler Linings
- Heating Pumps
- Industrial Insulation
- Investment Casting
- Kiln Furniture
- Mass Spectrometers
- Metal Processing
- Process Control Valves
- Thermocouples



I. METAL RECYCLING

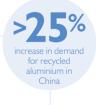
Morgan is enabling increased recycling of aluminium and other non-ferrous materials in China. Traditionally a leader in the production and consumption of non-ferrous metals, China is increasingly turning to recycled materials for its manufacturing industries, creating new demand for crucibles.

2. LONG-LIFE PUMPS

Morgan has developed a new silicon carbide material for hard-wearing seals used in 'long-life' pumps for demanding processing applications. It offers better reliability for reduced downtime and maintenance costs.

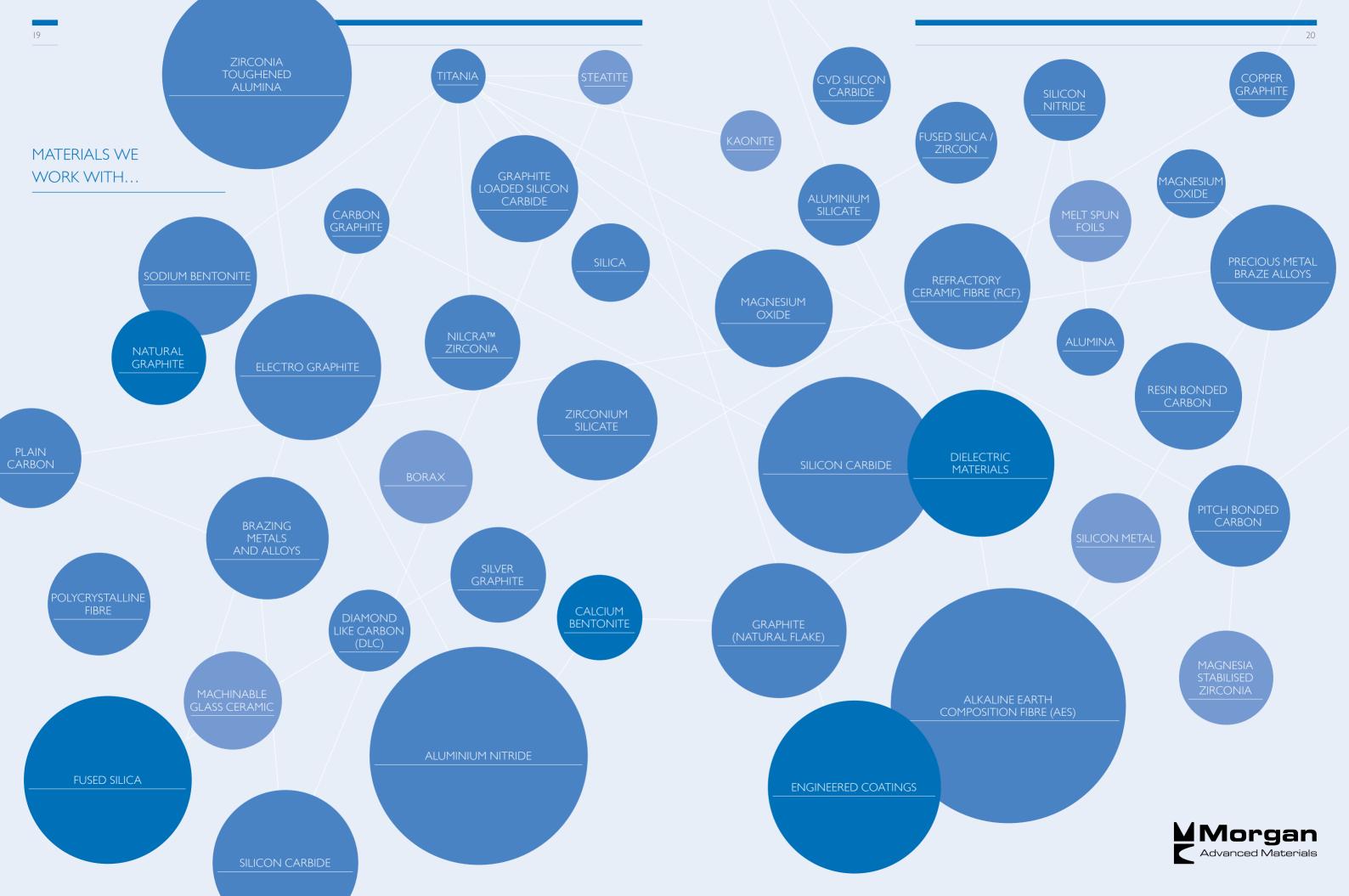












COMPOSITES AND DEFENCE SYSTEMS

The Composites and Defence Systems business of Morgan Advanced Materials makes innovative products using composite materials and specialist manufacturing techniques.

> Our business has been a pioneer in composite materials first producing its first carbon fibre products in the 1950s. It has unrivalled expertise in a wide range of composite applications and forming techniques which enables it to solve even the most demanding of composite applications. In quantities from a small batch run to high volume production.

> Whether it is stopping projectiles travelling at over hundreds of meters per second with materials less than 20mm thick, or developing and producing patient beds for the most advanced radiotherapy machines, Morgan is a leading name in solving the world's most challenging requirements with bespoke composite components.

SEALS AND BEARINGS

The Seals and Bearings business of Morgan Advanced Materials makes high performance seal components and bearings for equipment manufacturers worldwide.

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ROVIDING EXPERTISE AND INNOVATION O MEET CUSTOMER CHALLENGES

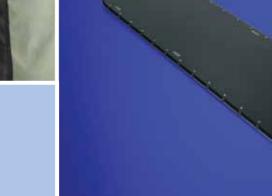






OFFERING EXCEPTIONAL BALLISTIC AND MECHANICAL PERFORMANCE

11-7



Working with an extensive portfolio of carbon, graphite and silicon carbide materials we offer an exceptionally wide range of products from standard parts to custom designs optimised for use in the most demanding applications. We are able to draw on our materials expertise to engineer innovative solutions to meet customer challenges.

The Seals and Bearings business makes critical parts that bring improved performance, reliability and extended life to equipment for medical, aerospace, petrochemical and domestic applications.



ROTARY TRANSFER SYSTEMS



The Rotary Transfer Systems business of Morgan Advanced Materials designs and manufactures high integrity systems for the transfer of current from a fixed part to one that is rotating.

> We produce a wide range of standard and customised components including slip rings, carbon brushes, brush holders and metallic contacts. Systems can be engineered to suit almost any rotating application and products can be combined to include electrical, pneumatic, hydraulic and multi-channel fibre-optic transfer elements.

The Rotary Transfer Systems business has more than 90 years experience in applications as varied as tower cranes for construction sites, complex radar systems, wind turbines, medical equipment and construction machinery.

SPECIALTY GRAPHITE

The Specialty Graphite business of Morgan Advanced Materials manufactures a variety of extruded and isostatically moulded graphite grades that can be machined and purified to custom specifications. Our purification capabilities in conjunction with glassy carbon coatings and impregnation result in some of the leading graphite products currently available in the industry.

> C pi ha Fi o te in

LINEAR TRANSFER



The Linear Transfer business of Morgan Advanced Materials produces carbon and metalised-carbon current collectors and assemblies for linear electrical transfer.

Our products are produced from an extensive portfolio of materials including carbon, graphite and metalised carbon.

We design and manufacture Linear Systems incorporating collectors into moving assemblies for applications covering a broad spectrum of voltages.

The business is able to draw on long-standing applications engineering experience and materials expertise to engineer products and solutions that meet demanding customer challenges and deliver long term high-performance. Typical applications of our products include; travelling cranes, loading bridges, container handling equipment, monorails and hoists. Our products include continuous casting dies for casting non-ferrous alloys, precious metals and grey iron in the metallurgical industry and component handling trays for use in high temperature environments such as furnaces.

Fine grained high purity graphite from Morgan Advanced Materials is often combined with a glassy coating or impregnation for use in high tech applications such ion implantation and plasma etching equipment in semiconductor production.



TECHNICAL CERAMICS

The Technical Ceramics business of Morgan Advanced Materials designs and manufactures advanced ceramic components from a portfolio of cutting edge materials.

> We work closely with our customers to address their requirements right through from concept to production in quantities from one-offs to high volume. We offer a wide range of advanced ceramic and glass materials, in-depth materials expertise and vast applications experience in diverse markets.

We routinely engineer complex parts that enhance the reliability or the performance of our customers' products in technically challenging applications.





THERMAL CERAMICS



The Thermal Ceramics business of Morgan Advanced Materials makes a range of fibre and refractory high temperature insulation products used to reduce energy consumption in industrial processes. Its products are also used in passive fire protection applications.





We have extensive experience working with customers all over the world to engineer, design and install high performance insulation in operating environments from 500 to 1600°C. We have a proven track record for helping customers to improve operational efficiency and respond to changing environmental pressures.

The Thermal Ceramics business produces a variety of market-leading brands including; Superwool® low bio-persistent insulating fibre, Pyro-Bloc modules, Min-K[®] and BTU-BLOCK microporous and JM[®], K[®] and TJM[®] insulating firebricks.



FIRE PROTECTION





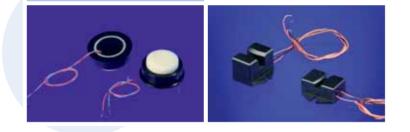
The Fire Protection business of Morgan Advanced Materials makes high performance fire insulation products under the FireMaster[®] brand for passive fire protection in marine, industrial and commercial applications.

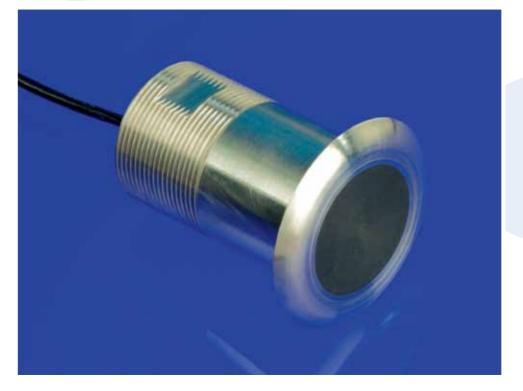
> FireMaster® products offer exceptional thermal and acoustic protection to meet a wide range of marine, commercial building and industrial standards. They are lightweight, flexible and easy to install.

> The Fire Protection business works with customers in the oil, gas, chemical production, shipbuilding and construction industries to design and install complete fire protection systems that deliver significant operational benefits in a diverse range of applications.

SENSORS AND TRANSDUCERS

The Sensors and Transducers business of Morgan Advanced Materials designs and manufactures electroceramic materials, transducers, sensors and systems.





We offer an extensive portfolio of piezoceramic materials and world-class design expertise enabling us to engineer products and sub-assemblies to meet a wide range of performance and cost requirements. We have the capability to manufacture to tight tolerances in high volumes.

The Sensors and Transducers business supplies products for measurement duties including level, flow, vibration and pressure in aerospace, medical, industrial and defence applications and regularly works with customers to develop sensors for safety-critical instrumentation and specialist electronics.



MOLTEN METAL SYSTEMS

OVER 150 YEARS OF CRUCIBLE MANUFACTURING EXCELLENCE



The Molten Metal Systems business of Morgan Advanced Materials supplies crucibles to the global metals industry.

We make high quality crucibles for metal and alloy melting in foundries, die-casters and metal processing facilities, including a comprehensive range of sizes and shapes for optimum performance in individual applications. We also offer foundry products and accessories including ladle bowl, launders, sheaths, plungers, tools, degassing tubes and refractory cements.

The Molten Metal Systems business has more 150 years' experience in the design and manufacture of crucibles for metals processing and is recognised as the world leader in the supply of crucibles to non-ferrous metals industries. Our brands include Salamander[®], Syncarb[®], Stabil[®], Cerox[®] and Excel[®].

ELECTRICAL CARBON

The Electrical Carbon business of Morgan Advanced Materials specialises in producing a range of market leading carbon brushes and current collectors used in applications including; Traction, Mining, Electric Vehicles, Aerospace and Power Generation from Wind Energy.

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The specialist knowledge possessed by our expert engineers enables them to confidently recommend the most appropriate material grade to meet the demands of any given application, a vital factor in achieving maximum brush life and high motor performance.

Our products, sold under the National[®] and Morganite[®] brand names, enable our customers to enjoy benefits such as increased uptime and reduced maintenance costs through improved machine reliability and availability.

We offer range of collector solutions from 600v to 25KV for mainline rail, light rail systems or tramways. So whether it's a local or high-speed rail service, Morgan can provide an effective, high-performance current collector solution.



BRAZE ALLOYS



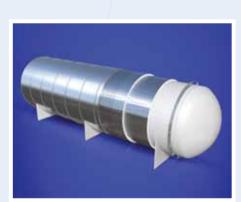
The Braze Alloys business of Morgan Advanced Materials makes high-purity, low vapour-pressure brazing alloys under the WESGO[®] brand.

Our precious metal brazing filler metals, derived from gold, silver, platinum and palladium, are designed for specialist applications in the power tube, aerospace, semiconductor, medical and vacuum industries. We also offer non-precious metals for brazing applications between 500°C and 1200°C.

Alloys are available as atomized powder, discs, evaporation slugs, extrudable paste, Flexibraze™, preforms, ribbon, rings, sheet and wire.

The Braze Alloys business has been at the forefront of brazing technology for more than 50 years and is continually developing new products to meet evolving customer demands.

THERMAL ENGINEERING



The Thermal Engineering business of Morgan Advanced Materials designs and delivers complete custom-engineered thermal insulation and passive fire protection systems for large-scale projects.

> Our engineering teams with experience of coordinating global projects, provide in-depth product expertise and extensive applications knowledge. We work with customers to design and build high performance insulation systems that offer best practice compliance with health, safety and environmental regulation and reduced operating costs.

The Thermal Engineering business has a proven track record providing complete thermal systems engineering and installation supervision for new build and major rebuild projects in the iron and steel, petrochemical, power generation and chemical processing industries all over the world.

The service utilises, the Groups trusted branded, including; Superwool[®], Pyro-Blok Modules, JM[®] Insulating fire bricks, Tri-Mor[®] monolithics and Firelite[®].

GET IN TOUCH

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