Morgan
morganadvancedceramics

INNOVATION IN MATERIALS TECHNOLOGY FOR AEROSPACE APPLICATIONS

With a world-leading reputation in advanced ceramics and brazing alloys, and manufacturing sites on three continents, you can be sure we will meet your development, prototype and production needs.

Morgan Advanced Ceramics utilise core competences of applications engineering and superior materials technology, together with state of the art, fully integrated manufacturing processes to offer precision ceramic components, ceramic to metal assemblies and braze alloys for use in a variety of Aerospace applications.

For example:

- Instrumentation
- Control systems
- Engine build
- Engine refurbishment
- Engine monitoring
- Missile Guidance systems
- Satellite positioning equipment

Courtesy of Rolls-Royce

Our advanced products have specific physical benefits:

- Exceptional stiffness to weight ratio
- Excellent chemical resistance
- Dimensional stability through a range of temperatures
- High mechanical strength
- Superior electrical properties

Materials:

Our range of materials include, but are not limited to:

- Aluminium Oxide
- Aluminium Nitride
- Silicon Carbide
- Silicon Nitride
- Pyrolitic Boron Nitride
- An extensive range of injection moulded metals
- Ceramic/Metal Braze assemblies
- Glass Preforms
- Glass Ceramics
- Zirconia
- Zirconia Toughened Alumina
- Precious Metal Braze Alloys

Many of the same braze alloys used to attach ceramics to other ceramics and to metal parts are used in the construction of gas turbine engines, and presintered preform repair materials are used to rebuild engine components.

Customer services from Morgan Advanced Ceramics:

- Full technical assistance for product design and development
- Prototyping
- Production quantities
- Complete documentation and traceability

Specialist production services:

- Material preparation plants
- Precision machined components
- Glazing
- Braze alloys
- Metallising and coating
- Brazing and assembly
- Full test facilities

All Morgan Advanced Ceramics manufacturing sites hold ISO 9000 approvals

MORGAN ADVANCED CERAMICS - SALES OFFICES

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