

ADVANCED CERAMICS AND METALS AT A GLANCE

The markets we serve

WHAT DIFFERENTIATES US?

- > Innovation of materials
- > Material quality - purity and consistency
- > Collaborative application engineering
- > Application expertise
- > Metallization and joining of ceramics
- > Precision machining of ceramics



Aerospace

- Vacuum grade braze alloys for the most reliable joining
- Rugged hermetic sensor and fire detection assemblies
- MRO alloy repair and refurbishment with presintered preforms



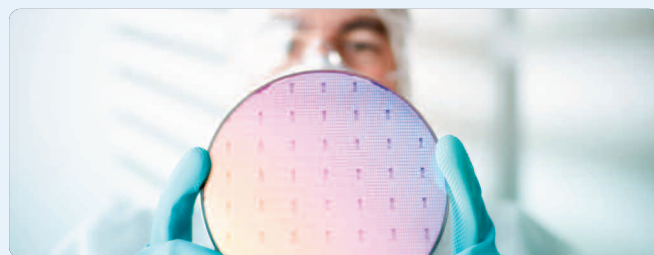
Medical

- High purity braze alloys and ceramics for imaging and oncology applications
- Reliable hermetic feedthroughs for active implants
- Laser reflectors for aesthetic and surgical procedures
- High precision blood shear valve components for hematology



Oil & Gas

- Reliable joining of diamond cutting tools
- Valve and pipe liners to handle abrasive materials
- Hydrocyclone liners for desanding and separation
- High pressure feedthrough connectors



Semiconductor

- Low particulate, life extending coatings and ceramics for in chamber componentry
- Showerheads and focus rings in CVD-SiC
- High temperature capable electrostatic chucks
- High purity alumina end effectors and plasma chambers for wafer handling and processing



Analytical Instruments

- High precision collars and quadrupole rods for mass spectrometers
- Reliable ceramic orifice plate and cartridge heaters
- High vacuum, high voltage power tubes for SEM microscopes

Overview

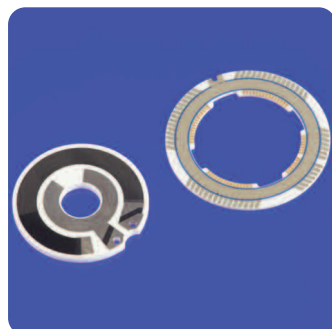
Morgan Advanced Materials is a world leading engineering company. We design, manufacture and supply innovative products that enable our customers' products and processes to perform more efficiently and reliably for longer.

The Advanced Ceramics and Metals Business of Morgan Advanced Materials is a renowned supplier of high performance ceramic components comprising of Alumina, Zirconia, CVD SiC, ceramic coatings and metallized ceramics.

The Advanced Ceramics and Metals Business also produces high purity vacuum grade precious metal braze alloys and active braze alloys. Additionally, we produce brazed assemblies, with expertise in joining a wide range of materials for success in the most demanding applications.

We differentiate through:

- Advanced material science and process capabilities
- A strong history of innovation
- Application engineering experience
- A truly global footprint
- Customer and market focus
- Great people



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