PRESS RELEASE

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New CD Coating Enables Medical Equipment Manufacturers to Operate at Higher Voltages at a Reduced Size

A Charge Dissipative (CD) coating capability for ceramic parts – to be launched by the Technical Ceramics business of Morgan Advanced Materials at RSNA 2017 in Chicago – is supporting the development of increasingly compact medical equipment.

One of the biggest drivers in the medical diagnostic imaging equipment market is the need for smaller and lighter weight x-ray sources. For imaging systems such as Computed Tomography (CT) scanners, technology is shifting towards smaller size and reduced rotating mass. Likewise, the growing popularity of mobile X-ray machines places the emphasis on convenience and maneuverability.

While the desire among manufacturers is to reduce system size, there is also the demand for improved resolution and imaging performance, which can be achieved by using higher operating voltages. This is where Morgan's CD coating provides a major benefit. Coating of the ceramic parts facilitates optimum performance at higher voltages. Morgan Advanced Materials is making significant advancements with its new capability to coat components with a tailor-made Specific Surface Resistance (SSR).

For manufacturers' development projects, Morgan will supply multiple coated samples, each with varying SSR. Development of a measurement system for SSR on complex ceramic shapes enables better consistency and repeatability that is critical for X-ray source manufacturers. Significant investment in automation and kilns at its German manufacturing facility gives Morgan the flexibility to offer reduced prototyping times to customers. Its latest range of coatings use a blend of titanium and chromium oxides

that provide semi-conducting layers and suppress the emission of secondary electrons, to meet the future technical requirements of X-ray sources.

Joerg-Uwe Wichert, Manager New Business at Morgan's Technical Ceramics business explains: "Our new capability is designed to support manufacturers to deliver increasingly compact, efficient and patient friendly medical systems. With smaller parts, there is a corresponding need to adjust the blend of CD coatings to maintain the best SSR and charge dissipation performance. That's why we've invested in materials and capacity to ensure that customers will always get the fast track for new products. "

Morgan's latest CD coatings will be launched at radiology exhibition RSNA 2017, held 26-30 November in Chicago, USA. Join the team on Booth 2765C for a first glimpse of the work Morgan is doing with CD coatings.

For further information please visit: http://www.morgantechnicalceramics.com/Coatings

ENDS

About Morgan Advanced Materials

Morgan Advanced Materials is a global materials engineering company which designs and manufactures a wide range of high specification products with extraordinary properties, across multiple sectors and geographies.

From an extensive range of advanced materials we produce components, assemblies and systems that deliver significantly enhanced performance for our customers' products and processes. Our engineered solutions are produced to very high tolerances and many are designed for use in extreme environments.

The Company thrives on breakthrough innovation. Our materials scientists and applications engineers work in close collaboration with customers to create outstanding, highly differentiated products that perform more efficiently, more reliably and for longer.

Morgan Advanced Materials has a global presence with over 10,000 employees across 50 countries serving specialist markets in the energy, transport, healthcare, electronics,

petrochemical and industrial sectors. It is listed on the London Stock Exchange in the engineering sector.

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