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# Press Release

## **Advanced Diamond Technologies Announces Diamond on Silicon (DoSi™) Family**

**Champaign, IL, May 11, 2006:** Advanced Diamond Technologies, Inc. (ADT) announces its first family of products based on Ultrananocrystalline Diamond™ (UNCD™). ADT's Diamond on Silicon (DoSi) products are electronics-grade silicon wafers coated with a thin film of UNCD. They are available immediately in 100, 150 and 200 mm wafer sizes in four different varieties of UNCD films.

The Aqua-series of UNCD films from ADT are the only phase-pure nanocrystalline diamond films in the world. UNCD films capture the hardness and other extreme properties of natural diamond with mirror smooth surfaces. UNCD Aqua 25 provides the ultimate in smoothness and wear resistance while UNCD Aqua 100 represents the ultimate mimic of natural diamond in thin film form. UNCD Aqua 40 and 50 have intermediate properties.

"This is the first family of products we are announcing based on UNCD," said Neil Kane, ADT President. "Our vision is that diamond isn't just for jewelry and cutting tools any more. Due to improvements in reproducibility and price performance, diamond is an engineering material that's about to be designed into a variety of industrial, electronic and biomedical devices. Our silicon wafer family is just the tip of the iceberg. You can expect to see more UNCD-enabled products in the near future."

UNCD is a family of diamond materials where the mechanical and electrical properties can be tailored to suit specific applications. ADT's DoSi wafers can be used to manufacture MEMS devices made of diamond, as x-ray windows, as platforms for biosensors, as wear-resistant coatings, as non-stick coatings and as cold cathode electron sources for display applications.

**For Release 9 a.m. CDT, May 11, 2006**

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“It’s important that our customers understand that diamond is not a single material, it’s a family of materials. With UNCD we can tailor the properties of diamond films such as hardness, electrical conductivity, roughness and so forth. With the UNCD Aqua Series we have standardized on four recipes that should meet the requirements of most customers, but we can always develop new recipes for specific applications,” said ADT’s Chief Technical Officer, John Carlisle.

“The applications of diamond films are numerous, and we are working with several companies in joint development programs that will bring breathtaking advances to a variety of industries,” said Kane.

UNCD DoSi products are available in volume immediately and can be ordered by calling the company or visiting its website.

About Advanced Diamond Technologies, Inc.

ADT is the world leader in exploiting the properties of diamond films for medical and industrial applications. ADT’s patented diamond, known as Ultrananocrystalline Diamond (UNCD), is prized for its exceptionally small (5 nanometer) grain sizes, which are a billion-fold smaller in volume than those in traditional diamond films. It is the exceptionally small grain sizes that make UNCD distinct from other diamond thin-films and, like other nanotechnologies, are the source of its enabling value.

Formed in December 2003, ADT provides diamond thin-films and materials integration solutions to a variety of industry participants in a variety of application areas. It is based in Champaign, IL. Its website is [www.thindiamond.com](http://www.thindiamond.com).

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