



PRESS RELEASE
For Immediate Release

Applied NanoWorks Announces New Water Soluble Titanate

Rensselaer, NY. July 24, 2007 – Applied NanoWorks announced today the development of a new water soluble titanate designed to meet the demand for water soluble, stable titanates. The titanium based molecule has only two alkoxy ligands, as opposed to four ligands common in traditional titanates. This feature facilitates water solubility, improves shrinkage, flexibility and the ability to engineer functional derivatives of the titanate. This level of flexibility makes the titanate molecule ideal for a variety of water-based and solids applications, ranging from Catalysts and Adhesives to drug delivery agents for the Pharmaceutical and Agricultural markets.

The company has tested the new molecule for several industry applications. As a traditional catalyst the water soluble titanate improves Lewis Acid catalytic Diels-Alder reactions by 35%. Also, as an adhesion promoter it improved the tensile strength of carbon fiber epoxy bonding by 27%. Nanoparticles made from the titanate show promise as a delayed release carrier where testing showed delayed release of a standard active by as much as 50% over silica modified microcrystalline cellulose. The new titanate molecule will be marketed under the FlexTyl trade name and is available in a number of solvents as well as powder form.

“This unique titanate molecule offers new degrees of control and flexibility that meet the needs of manufacturers increasingly concerned with use of Volatile Organic Compounds.” stated Dr. Kyle Litz, R&D Manager at Applied NanoWorks. “VOC’s are believed to pose a detrimental impact on our environment. Our water-soluble material can enable new processes and helps manufacturers meet increasing Federal regulations while improving product performance. And the fact that we can control the formation of nano-particles from the molecule makes it an even more flexible solution for many applications.”

Titanates are used in the production of many performance-driven materials including plastics, inks, coatings, and semiconductors. The company’s proprietary process enables various new transition metal materials that are needed to meet the growing demands of high performance applications. With the introduction of FlexTyl areas such as UV blocking, metal oxide catalysis, improved cross linking and electronic and thermal conductivity are all potential applications for the new titanate.

About Applied NanoWorks

Founded in 2003, Applied NanoWorks, Inc. has developed a platform of proprietary manufacturing technologies for the production of advanced nano-scale materials that deliver unmatched physical performance and cost dynamics. The products include nano-oxides and nano-phosphors produced in 2nm to 50nm sizes and are available in a variety of form factors. Applied NanoWorks, where nanotechnology transitions from the lab to the real world. For information visit our web site at www.appliednanoworks.com

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