



TANIQ and Momentive Introduce New Manufacturing Concept for Turbocharger Pressure Hoses

European Union Funds Joint Development Initiative

Delft, May 12, 2010 — Working closely with the Momentive Performance Materials team in Leverkusen, Germany, TANIQ, a spin-off from the Aerospace Faculty of Delft University of Technology in The Netherlands, has developed a new approach to increase the pressure resistance of silicone-textile composite pressure hoses. The global trend toward downsized engines and greater powertrain efficiency – driven by the need to reduce CO₂ emissions and fuel consumption – has led to increased adoption of high-pressure turbo-charger applications.



Instead of wrapping fabric-textile around the rubber-composite or knitting a reinforcement through extrusion, the new process provides reinforcement through an endless cord spun onto the rubber hose. The position of the cord is mathematically optimized to ensure that only tensile forces are applied to the reinforcement, resulting in a more flexible shaped hose, with increased working pressures up to 6 bars.

“Higher charge air pressure naturally results in a temperature increase,” said Oliver Franssen, Global Marketing Manager Transportation, Momentive. “To meet this challenge, we have worked closely with TANIQ to develop a heat-resistant silicone material that pushes the existing limits towards 250°C. This new concept, combining high heat compounds and smart efficient reinforcement, should also allow new and more complex hose designs, since materials usage can now be better optimized.”



The joint development project was granted the EUREKA label by the European Union. With this designation, TANIQ was able to leverage the program for High Tech Automotive Systems in The Netherlands, and receive partial funding from the Dutch government.

“The European Union has focused on dramatically reducing vehicle CO₂ emissions and now supports us officially,” added Siebe Nooij, Director of TANIQ. “We are very excited about this funding approval which will help our team finalize and optimize the development, then make it available commercially for turbo hose manufacturers.”

About TANIQ

TANIQ has specialized in optimal fibre reinforcement for reinforced rubber products and develops new technology and production solutions for her customers. TANIQ started as a spin-off from the Aerospace Faculty of Delft University of Technology in The Netherlands. Today TANIQ works on product and process improvements for customers in the automotive, dredging, rescue and civil engineering industry in Europe, United States and South America. In 2009 TANIQ was awarded for their new technology for Turbo Hoses with the TOP 30 Innovations Prize by the Network of Automotive Excellence in Germany. Additional information is available at www.TANIQ.com.

About Momentive Performance Materials

Momentive is a global leader in silicones and advanced materials, with a 70-year heritage of being first to market with performance applications for major industries that support and improve everyday life. The company delivers science-based solutions, by linking custom technology platforms to opportunities for customers. Momentive Performance Materials Inc. is controlled by an affiliate of Apollo Management, L.P. Additional information is available at www.momentive.com.

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