

SGL Group presents innovative material concepts for large-scale automotive production applications at Composites Europe 2016

Wiesbaden, November 8, 2016. SGL Group - The Carbon Company - is taking part in the Composites Europe Trade Show 2016 in Düsseldorf, where it will be presenting new material developments and innovative, fiber-based product solutions and their applications.

An innovative concept in the fiber-reinforced thermosets sector being introduced by SGL Group at the trade show is a complete material tool box consisting of pre-impregnated semi-finished products based on the new "Snap-Cure" epoxy resin developed in-house. This E420 epoxy resin system combines very fast curing times (≤ 3 minutes at $\geq 150^{\circ}\text{C}$) with good storage stability (4 weeks at room temperature). The pre-impregnated semi-finished products also have optimized tack for automated processing. The high glass transition temperature of $140 - 150^{\circ}\text{C}$ enables the component to be demolded at high temperatures. These materials are supplied on the basis of SIGRAFIL® 50k carbon fibers and as glass fiber-reinforced semi-finished products.

"The various materials in our new material tool box can be flexibly combined and processed, so offering maximum design freedom to users. At the same time, they reduce the complexity involved in the qualification and production of components. This is because they are based on the same resin system, enabling a high degree of standardization to be achieved and ensuring excellent compatibility between the different semi-finished products," explained Stefan Geh, Head of Product Groups at SGL Group, describing the advantages of the new material tool box.

The point is that, with materials from the new SGL tool box, users only have to go once through the costly and time-consuming qualification process for the matrix system (e.g. adhesive compatibility, EDC suitability) but then have a very diverse range of semi-finished products at their disposal. New lightweight design concepts exploiting the particular advantages of individual semi-finished products (e.g. UD versus isotropic) help satisfy the requirements for cost-efficient, sustainable large-scale manufacture of CRP components in the automotive industry.

SGL Group is a complete solution provider in the area of fiber composites. With its thorough understanding of the entire process chain from fibers through fiber-reinforced composites to thermoplastic or thermoset lightweight structures, SGL Group can give its customers individualized support to achieve an innovative yet cost-efficient solution.

"Composites Europe", the 11th European Trade Show & Forum for Composites, Technology and Applications, starts on November 29, 2016 at the Düsseldorf Exhibition Center (Messegelände Düsseldorf). On Booth C07 in Hall 8b, visitors will find the entire range of fiber-based semi-finished products made by SGL Group, including the new thermoset semi-finished products, which are already being used in their first automotive industry projects.

About SGL Group – The Carbon Company

SGL Group is one of the world's leading manufacturers of carbon-based products and materials. It has a comprehensive portfolio ranging from carbon and graphite products to carbon fibers and composites. SGL Group's core competencies are its expertise in high-temperature technology as well as its applications and engineering know-how gained over many years. These competencies enable the Company to make full use of its broad material base. SGL Group's carbon-based materials combine several unique properties such as very good electrical and thermal conductivity, heat and corrosion resistance as well as high mechanical strength combined with low weight. Due to industrialization in the growth regions of Asia and Latin America and increased substitution of traditional with innovative materials, there is a growing demand for SGL Group's high-performance materials and products. Products from SGL Group are used predominantly in the steel, aluminum, automotive and chemical industries as well as in the semiconductor, solar and LED sectors and in lithium-ion batteries. Carbon-based materials and products are also being used increasingly in the wind power, aerospace and defense industries.

With 40 production sites in Europe, North America and Asia as well as a service network covering more than 100 countries, SGL Group is a company with a global presence. In 2015, the Company's workforce of around 5,700 employees generated sales of €1,323 million. The Company's head office is located in Wiesbaden.

Further information on SGL Group can be found in SGL Group's newsroom at www.sqlgroup.com/press or at www.sqlgroup.com.

Important note:

This press release may contain forward-looking statements based on the information currently available to us and on our current projections and assumptions. By nature, forward-looking statements involve known and unknown risks and uncertainties, as a consequence of which actual developments and results can deviate significantly from these forward-looking statements. Forward-looking statements are not to be understood as guarantees. Rather, future developments and results depend on a number of factors; they entail various risks and unanticipated circumstances and are based on assumptions which may prove to be inaccurate. These risks and uncertainties include, for example, unforeseeable changes in political, economic, legal, and business conditions, particularly relating to our main customer industries, such as electric steel production, to the competitive environment, to interest rate and exchange rate fluctuations, to technological developments, and to other risks and unanticipated circumstances. Other risks that in our opinion may arise include price developments, unexpected developments connected with acquisitions and subsidiaries, and unforeseen risks associated with ongoing cost savings programs. SGL Group does not intend or assume any responsibility to revise or otherwise update these forward-looking statements.

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