March 01, 2016

JEC 2016: SGL Group showcases innovative fiber materials and composites for different market segments

- JEC premiere of the “Carbon Core” body for the new BMW 7 series
- Fiber-reinforced composites for the automotive, aerospace, and wind energy industries
- Material innovations such as pre-impregnated fiber bundles and glass fiber-based thermoplastic composites

*Wiesbaden/Paris, March 1, 2016.* At this year’s JEC World in Paris from March 8-10, 2016, SGL Group will be presenting new material developments and innovative carbon fiber-based product solutions and their applications.

Composites are being used in combination with conventional materials such as steel and aluminum in increasingly more applications. Many developments focus on reducing the weight and increasing the functionality of components and optimizing material systems for use in large-scale production. This applies both to the automotive industry and to other segments such as aerospace and wind energy.

**SGL Group demonstrates innovative material mix for large-scale automotive production**

As a prime example for the innovative use of composites in large-scale production, SGL Group is showcasing the “Carbon Core” body of the new BMW 7 series for the first time at the JEC. Carbon fiber braids of SGL Group are being used as standard in combination with aluminum in the roof frame structure of this model series. The braids are produced in a fully automated process and then supplied directly to the BMW Group as preforms for the component production. SGL Group also supplies carbon fibers, carbon fiber-based fabrics and non-wovens, which are used according to the specific component requirements as standard in various parts of the body of the 7 series such as the C- and B-pillar pillar, rear panel, door sills, transmission tunnel, and roof rails.

SGL Group is involved in this project at various stages of the value chain. Carbon fibers are produced at Moses Lake in the US state of Washington. Subsequent processing of the fibers is carried out specially targeted within SGL Group’s production network.

**Presentation of new material concepts in the innovation area of the JEC World Fair**

In addition, SGL Group will demonstrate its current development activities in the newly created “AUTO Planet” innovation area of the JEC fair in Hall 6. Among the Company’s innovations are SIGRAPREG® TowPregs based on 50k continuous carbon fiber tow. SIGRAPREG® TowPregs made from carbon and glass fibers are particularly suitable for automated production processes because of their width stability and excellent winding behavior and they impart very good mechanical properties to the component. They can also be combined with new rapid-curing prepreg resin systems, which are currently being developed to meet the requirements of future large-scale production in the automotive industry. These “snap cure” epoxy resin systems combine very rapid curing times (< 3 minutes at 150°C) with good storage stability. The pre-impregnated semi-finished products also have optimized tack for automated processing.

Another highlight of the innovative product solutions presented by SGL Group is the range of different material options in the area of fiber-reinforced thermoplastics. These include tapes, sheets & LFT, which permit very fast cycles, easy weldability, and good recyclability. The thermoplastic materials supplied by SGL Group have previously
been reinforced solely with carbon fibers but, as of now, glass fiber-reinforced semi-finished products are also available.

Visit us at JEC World, Paris Nord Villepinte, Hall 6, Booth C25!

About SGL Carbon

SGL Carbon is a technology-based company and world leader in the development and production of carbon-based solutions. Its high-quality materials and products made from specialty graphite and composites are used in industrial sectors that determine the future: automotive, aerospace, solar and wind energy, semiconductor and LEDs as well as in the production of lithium-ion batteries and other energy storage systems. In addition, SGL Carbon develops solutions for chemical and industrial applications.

In 2017, SGL Carbon generated sales of around 860 million euros. As of December 31, 2017, the company had approximately 4,200 employees worldwide in 34 locations in Europe, North America, and Asia.

Materials, products and solutions from SGL Carbon are embedded in the major topics of the future: sustainable mobility, new energies and cross-industry digitization. Further developments in these areas demand more intelligent, more efficient, networked and sustainable solutions. This is where the entrepreneurial vision of SGL Carbon evolves around: contributing to a smarter world.

Further information on SGL Carbon can be found in the Newsroom of SGL Carbon at www.sglcarbon.com/press and at www.sglcarbon.com.

Important note:

To the extent that our press release contains forward-looking statements, the latter are based on information that is available at present and on our current forecasts and assumptions. Forward-looking statements, by their very nature, entail known as well as unknown risks and uncertainties that may lead to actual developments and events differing substantially from the forward-looking assessments. Forward-looking statements must not be understood to be guarantees. Instead, future developments and events depend on a large number of factors; they comprise various risks and imponderables and are based on assumptions that may possibly turn out not to be appropriate. These include unforeseeable changes to fundamental political, economic, legal and societal conditions, particularly in the context of our main customers’ industries, the competitive situation, interest and exchange rate trends, technological developments as well as other risks and uncertainties. We perceive additional risks e.g. in pricing developments, unforeseeable events in the environment of companies acquired and Group member companies as well as in current cost savings programs from time to time. The SGL Carbon assumes no obligation and does not intend to adjust or otherwise update these forward-looking statements either.

SGL Carbon SE

Corporate Communications

Soehnleinstrasse 8
65201 Wiesbaden/Germany

Telephone +49 611 6029-100

Fax +49 611 6029-101

press@sglcarbon.com

www.sglcarbon.com