

Solvay and SGL Carbon collaborate to develop highly-competitive advanced carbon fiber composites for aerospace primary structures

Brussels, December 3, 2019 – Solvay and SGL Carbon have entered into a joint development agreement (JDA) to bring to market the first composite materials based on large-tow intermediate modulus (IM) carbon fiber. These materials, which address the need to reduce costs and CO2 emissions, and improve the production process and fuel efficiency of next-generation commercial aircraft, will be based on SGL Carbon's large-tow IM carbon fiber and Solvay's primary structure resin systems.

The agreement encompasses both thermoset and thermoplastic composite technologies. It builds on Solvay's leadership in supplying advanced materials to the aerospace industry and SGL Carbon's expertise in high-volume carbon fiber manufacturing.

"For Solvay, this is an opportunity to lead the aerospace adoption of a composite material based on 50K IM carbon fiber. This is a highly competitive value proposition that brings more affordable high-performance solutions to our customers. We see this as the first step in a long-term partnership," said Augusto Di Donfrancesco, member of Solvay's executive committee.

"By combining SGL's carbon fiber expertise in our newly developed, unique 50K IM fiber with Solvay's resin formulation and aerospace market expertise, both partners are aiming to develop an advanced aerospace material system. This alliance supports our strategic direction and accelerates our growth in the attractive aerospace market," said Dr. Michael Majerus, spokesman of the management board of SGL Carbon.

Composite materials for aerospace applications represent a multi-billion-dollar market that is expected to grow strongly in the coming decade. Solvay and SGL Carbon are uniquely positioned to develop solutions to address the needs of this market.

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 2018, SGL Carbon SE generated sales of around €1 billion. The company has approximately 5,100 employees at 31 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 what the entrepreneurial vision of SGL Carbon revolves around: contributing to a smarter world.

Further information on SGL Carbon can be found at www.sglcarbon.com/press.

About Solvay

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its lightweighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve

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air and water quality. Solvay is headquartered in Brussels with around 24,500 employees in 61 countries. Net sales were €10.3 billion in 2018, with 90 percent from activities where Solvay ranks among the world's top 3 leaders. Solvay SA (**SOLB.BE**) is listed on Euronext Brussels and Paris (Bloomberg: **SOLB.BB** - Reuters: **SOLB.BR**) and in the United States its shares (SOLVY) are traded through a level-1 ADR program.

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