

SGL Carbon successfully experimented large size SIGRACELL® bipolar plate materials for various applications

- SIGRACELL TF6 and PV15 bipolar plates are now available in dimension 60" x 60" (1,524 mm x 1,524 mm) with same performance parameters as smaller size plates
- Allow for building larger electrochemistry cells

SGL Carbon has developed and successfully tested full size (60" x 60") TF6 and PV15 bipolar plates (BPP) made of a graphite/fluoropolymer composite material. The performance of the new large size plates is in line with their smaller size versions showing good electrical conductivity, high chemical resistance, and light weight. Also, the thicknesses for the large BPP are kept constant at 0.0235 in (0.6 mm).

These new larger size SIGRACELL BPP help enabling many different applications in various industries including flow battery, wastewater treatment system manufacturing, and other electrochemistry applications. Furthermore, they give the opportunity to build larger electrochemistry cells and increase product efficiency.

SGL Carbon develops special materials and products for energy storage in close cooperation with customers and is one of the leading manufacturers of specialty graphites and graphite components for different kinds of batteries like lithium-ion, redox-flow and lead-acid batteries. The continuous improvement of the materials for SIGRACELL battery felts, bipolar plates and endplates has significantly enhanced the performance and service life of electrochemical products.

Visit our website for more information: www.sglcarbon.com/batteries

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,

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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

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