

SGL Carbon supplies first plants with DIN EN1591-1 tightness certification to the chemical industry

- First column already delivered to major European customer

In plant operation in the chemical industry, the tightness of flanged joints is becoming increasingly important when dealing with aggressive and corrosive operating media. In accordance with European Union requirements, the German government has defined new requirements in the first administrative regulation to the Federal Immission Control Act (BImSchG), which will apply from January 2021. SGL Carbon is the first manufacturer of PTFE-lined columns to be able to provide the required proof of tightness according to DIN EN 1591-1 and has already delivered the first column with the new certification to a major European customer.

Specifically, the Technical Instructions on Air Quality Control (TA-Luft) of the Federal Immission Control Act (BImSchG) prescribe new, stricter emission values (leakage class L0.01) for keeping the air clean, which must be complied with when operating plants requiring a permit. In order to be able to guarantee the technical tightness of steel/PTFE flanged joints, SGL Carbon, together with a working group of other companies, first determined the EN 13555 sealing characteristic values, which reflect the material-specific PTFE properties as well as the characteristic manufacture and shaping of the linings. With these characteristic values integrated in a database, SGL experts were able to perform realistic DIN EN 1591-1 calculations for flanged joints of a packed column lined with POLYFLURON PTFE and prove the tightness in accordance with TA-Luft. The design, final acceptance and pressure tests in accordance with Directive 2014/68/EU (PED) were successfully certified by a recognized notified body.

"With the rapid implementation of the new tightness requirements for columns, our solutions offer customers further significant added value, which is currently also being applied to other products. Our sales team and technical service are available to provide customers with comprehensive advice on the new directives and our products," explains Ralph Spuller, Director Product Management in the Process Technology (PT) Business Unit at SGL Carbon.

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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, fuel cell and other energy storage systems. In addition, SGL Carbon develops solutions for chemical and industrial applications.

In 2019, SGL Carbon SE generated sales of around 1.1 billion euros. The company has approx. 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 where the entrepreneurial vision of SGL Carbon evolves around: contributing to a smarter world.

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

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.

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