

SGL Carbon develops new oxidation resistant textile yarn for high temperature applications

- Considerably improved oxidation resistance
- Specific coating ensures high purity meeting the requirements of the current Shell specification MESC SPE 85/204

SGL Carbon developed a new graphitized textile yarn based on polyacrylonitrile to complement its material portfolio of SIGRAFLEX® yarns. The new yarn, called SIGRAFLEX OXR, is characterized by a unique combination of properties, making it particularly suitable for use in high-temperature processes.

SIGRAFLEX OXR is produced with a special coating based on the proven APX2 technology. Due to its considerably improved oxidation resistance the yarn can be used also in high process temperatures with minimum weight loss. In addition, it fulfills the end users demands for low friction and high thermal conductivity. With a carbon content of $\geq 99.5\%$ and low sulfur, fluoride and chloride contents, SIGRAFLEX OXR features a very high degree of purity and is the only coated textile yarn currently on the market that meets the graphite requirements of the Shell specification MESC SPE 85/204.

"With our diverse SIGRAFLEX carbon and graphite packing yarns, we offer our customers optimum solutions for a wide variety of applications. With the new SIGRAFLEX OXR yarn, we are now closing an existing market gap in the field of high-temperature resistant and simultaneously high-purity packaging yarns," says Olympia Riehl, Director of the Product Carbon Expanded Graphite at SGL Carbon.

SGL Carbon has many and various possible combinations in the manufacture of SIGRAFLEX yarns, e.g. base material, carbon content, number of plies and filaments, twist, coating and yarn weight etc. This allows the optimum steering of the yarns' properties resulting in a comprehensive carbon and graphite yarn portfolio which fulfills the most diverse demands of the customers.

At this year's ACHEMA, the leading trade fair for the process industries, taking place from June 11-15, 2018 in Frankfurt am Main, the new oxidation-resistant SIGRAFLEX OXR yarns will be presented for the first time and will be ready and available from then on. We look forward to seeing you at our booth in Hall 8.0, Stand L81.

SGL Carbon SE
Corporate Communications, Media Relations
Soehnleinstrasse 8
65201 Wiesbaden/Germany
Phone +49 611 6029-100 | Fax +49 611 6029-101
press@sglcarbon.com | www.sglcarbon.com

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 Carbon 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

Andreas Pütz – Head of Corporate Communications and Marketing

Soehnleinstrasse 8
65201 Wiesbaden/Germany

Telephone +49 611 6029-100

Fax +49 611 6029-101

press@sglcarbon.com

www.sglcarbon.com

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 [Facebook](#)