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Process technology for the phosphoric acid industry – made by SGL Group

We cover the entire supply chain, from the manufacturing of graphite materials to complex systems including a comprehensive range of equipment and services.

Equipment solutions

Graphite heat exchangers

- DIABON® shell & tube heat exchanger
- DIABON block heat exchanger (cylindrical, cubical, mono block)
- DIABON plate heat exchanger

Graphite and PTFE lined columns, reactors, vessels

- DIABON graphite columns
- POLYFLURON® PTFE lined columns

Column internals (feed pipes, grids, liquid distributors, trays, packings etc.)

- DIABON graphite and PTFE internals
- SIGRABOND® carbon fiber based high-performance internals



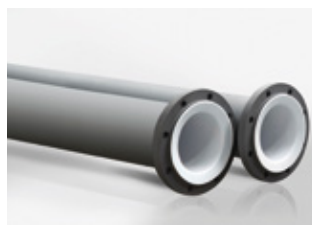
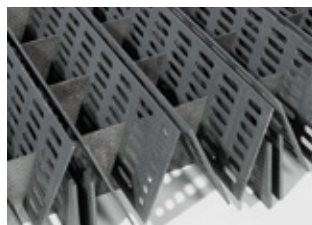
Fluid handling solutions

PTFE lined piping, expansion bellows and parts

- POLYFLURON piping system, linings and lining services
- POLYFLURON expansion bellows

Graphite, carbon and exotic metal pumps

- DIABON/DURABON® or exotic metals (titanium, zirconium, nickel alloys) centrifugal and axial pumps
- standardized designs acc. ISO 2858 with back pull-out available



Service solutions

Services by SGL Group – more than just repairs. We provide comprehensive services throughout the entire lifecycle

- Start-up Services (commissioning, installation, trainings, etc.)
- Operation Services (OEM spare parts, maintenance and repairs, emergency procedures, inspection, etc.)
- Upgrade Services (debottlenecking, equipment harmonization, spare parts concepts, etc.)
- End of use Services (conservation, revamping, re-use, end of life, etc.)

Process solutions

- Concentration of H_3PO_4
- Purification of H_3PO_4
- Dilution of H_2SO_4

Global production network for process technology

Strongsville | USA
Grenoble | France
Meitingen | Germany
Limburg | Germany

Pune | India
Shanghai | China
Karaham | Korea
Yamanashi | Japan



Did you know...

SGL Group is the global market leader¹ in graphite based process technology

We've been a trusted partner of the phosphoric acid industry for more than 35 years. Solutions like CARBOGUARD® carbon fiber protection have been developed specifically for the industries requirements.

SGL Group provides graphite tubes with highest heat conductivities on the market at up to 130 W/mK (longitudinal) and 70 W/mK (radial)

DIABON tubes for shell & tube heat exchanger allow much more compact heat exchanger and can reduce the tendency of fouling significantly, resulting in longer lifetimes and up to four times less cleaning cycles. With our fully-graphitized tubes and the optional CARBOGUARD protection tube break-age (e. g., during water jet cleaning) can be reduced up to 20x.

SGL Group manufactured the largest graphite columns in the world

A diameter of 3 m and trouble free operation since more than 10 years is our proof for the high quality promise.

SGL Group provides process solutions including performance warranties

By combining our high performance equipment for corrosive applications, state-of-the-art (simulation) software and a long time experience in process design we can offer you full systems with essential benefits like:

- highest efficiency by perfectly aligned components
- in many cases including performance warranties
- at minimum TCO (Total Cost of Ownership)

SGL Group introduces innovative carbon fiber based engineered solutions

We are the first supplier worldwide applying modern carbon fiber based materials (SIGRABOND) in a broad range for process equipment and parts. Your benefits are state-of-the-art products setting a new benchmark in performance and handling at economic prices.

¹ Acc. Global Graphite Heat Exchanger Report 2015, QY Research Center

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