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Process technology for chlor alkali facilities – made by SGL Group

Process solutions

- **HCl syntheses** (top and bottom burner design for HCl acid and gas production, optionally with heat recovery, i.e., hot water or steam generation)
- **Absorption of HCl gas**
- **Desorption of HCl acid**
- **Azeotropic shifter systems** (dual pressure and extractive distillation)
- **HCl recovery units** (evaporation/concentration/purification of HCl acid)

Equipment solutions

Graphite heat exchangers

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

DIABON rupture disks

Fluid handling solutions

PTFE lined piping, expansion bellows and parts

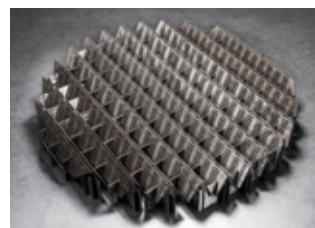
- POLYFLURON piping system, linings and lining services
- POLYFLURON expansion bellows

Graphite, carbon and exotic metal pumps

- DIABON/DURABON® centrifugal pumps with standardized designs acc. to ISO 2858 (magnetic coupling, single or double mechanical seal)
- Exotic metals (titanium, zirconium, nickel alloys) centrifugal and axial pumps

Other

- Tayson-Klett safety tape for flanges



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.)

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 provides process solutions including performance warranties

By combining our high performance equipment for corrosive applications, state-of-the-art (simulation) software and our extensive experience in process design we can offer you total systems with essential benefits such as:

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

SGL Group is recognized as the most innovative producer of HCl synthesis units with regard to safety and performance

Since the early 1980s SGL was the first producer to equip our synthesis units with a fully automatic ignition incl. safety interlock system. Since then our integrated safety system for safe automatic startup and safe shutdown of the unit has been continuously improved acc. to the state-of-the-art rules and provides the highest safety standard for this technology available today (safety system SIL2).

SGL units are always designed with focus on safe and easy operation.

SGL Group has the most comprehensive portfolio for HCl generation

SGL Group offers bottom-burner and top-burner technology for HCl acid and gas generation, with options to include steam generation at high pressure from the synthesis unit for improved economics. Additionally, we provide porous reactors to generate HCl from Chlorine and Methane in case Hydrogen is not available.

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.

TIS chlor alkali.00

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The data contained herein represent the current state of our product knowledge and are intended to provide general information on our products and their application spectra. In view of the variety and large number of application possibilities, these data should be regarded merely as general information that gives no guarantee of any specific properties and/or suitability of those products for any particular application. Consequently, when ordering a product, please contact us for specific information on the properties required for the application concerned. On request, our technical service will supply a profile of characteristics for your specific application requirements without delay.

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Graphite Materials & Systems | SGL CARBON GmbH

Sales Europe/Middle East/Africa | pt-europe@sglgroup.com
Sales Americas | pt-americas@sglgroup.com
Sales Asia/Pacific | pt-asia@sglgroup.com
www.sglgroup.com/gms

