

## Process technology – made by SGL Carbon

Profit from our expertise in corrosive applications.

### Your key benefits

Our systems, equipments and components provide maximum safety for your production processes while ensuring both availability and cost effectiveness. Moreover our comprehensive range of services covers the entire lifecycle of your facilities. We are your reliable partner, not only your supplier.

### Process solutions

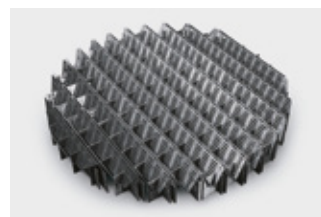
- HCl syntheses
- Absorption of HCl gas
- Production of HCl gas from hydrochloric acid
- Evaporation and concentration of hydrochloric acid
- Purification of HCl
- Dilution of  $H_2SO_4$
- Concentration of  $H_2SO_4$
- Concentration of  $H_3PO_4$
- Defluorination of  $H_3PO_4$
- Treatment of exhaust gas and flue gas
- Destruction of fluorochlorinated hydrocarbons (HCFC)
- Handling of acidic gases

### Equipment

- Shell and tube heat exchanger
- Block heat exchanger
- Plate heat exchanger
- Groove heat exchanger
- Columns, reactors, vessels
- Quenchers
- Pumps

### Components and assemblies

- Rupture disks
- Column internals
- Feed tubes
- Expansion joints
- Piping
- PTFE liners
- PTFE hoses



### Parts and services

Services by SGL Carbon – 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  
Yamanashi | Japan



### Did you know ...

#### **SGL Carbon is the global market leader<sup>1)</sup> in graphite based process technology**

You get access to the largest know-how and experience base available in industry, based on most references with more than 10000 block heat exchanger, more than 4500 shell & tube heat exchanger, more than 3000 plate heat exchanger and hundreds of synthesis units, columns, systems etc.

#### **SGL Carbon 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.

#### **SGL Carbon 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 Carbon provides the most efficient graphite heat exchanger in the world**

We introduced the most modern and efficient graphite heat exchanger technology on market – DIABON plate heat exchanger. Up to 70 % more compactness and flexibility is your benefit.

#### **SGL Carbon 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.

<sup>1)</sup> Acc. Global Graphite Heat Exchanger Report 2017, QY Research Center



Graphite Materials & Systems | SGL CARBON GmbH  
Sales Europe/Middle East/Africa | pt-europe@sglcarbon.com  
Sales Americas | pt-americas@sglcarbon.com  
Sales Asia/Pacific | pt-asia@sglcarbon.com  
www.sglprocesstechnology.com

TIS ES.02

04 2019/0.25 2NÄ Printed in Germany

®registered trademarks of SGL Carbon SE

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.