



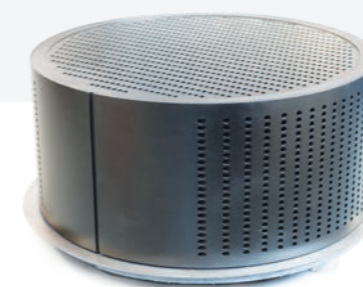
CORROSIVE CHEMICALS

## ANTICORROSION PROCESS EQUIPMENT



Heat exchangers  
Reactors, columns & vessels  
Piping  
Expansion joints / bellows  
Rupture discs  
Process technologies  
Service





**GRAPHILOR®**  
THE SUPERIOR  
MECHANICAL AND  
CORROSION RESISTANT  
ISOSTATIC GRAPHITE

GRAPHILOR®: MERSEN OFFERS THE WIDEST RANGE OF IMPERVIOUS GRAPHITE MATERIALS ON THE MARKET

- **Graphilor® 3 BS:** the versatile phenolic resin impregnated extruded graphite for most corrosion applications. Maximum temperature: 200°C
- **Graphilor® 3 XBS:** the mechanically superior phenolic impregnated isostatic graphite for the most-corrosive applications. Maximum temperature: 220°C
- **Graphilor® 3 XTH:** the chemically ultra-resistant fluoropolymer impregnated isostatic graphite for oxidizing applications. Maximum temperature: 250°C
- **Graphilor® 3 XC:** the unique ultra-resistant carbon impregnated isostatic graphite for the most extreme applications with high temperature resistance (430°C)



**SILICON CARBIDE**  
“UNIVERSAL  
CORROSION RESISTANCE”  
SPECIFICALLY SUITABLE  
FOR HIGHLY AGGRESSIVE  
CHEMICAL COMPOUNDS

- Extreme hardness leading to optimal resistance against abrasion
- Extreme purity which makes SiC suitable for electronic applications
- Good resistance against thermal shock



**GRAPHITE  
TUBES**  
THE LONGEST TUBES  
ON THE MARKET (6M)  
WITHOUT JOINT

- High thermal conductivity
- Superior mechanical properties and chemical resistance
- Excellent combination of properties namely thermal conductivity, mechanical strength and corrosion resistance



**ARMYLOR® PTFE  
LINED PRODUCTS**  
EXPERTS IN THE PASTE  
EXTRUSION PROCESS  
AND LARGE DIAMETER

- Materials: Virgin PTFE and TFM (modified PTFE) with antistatic as an option
- Seamless paste extrusion liners up to DN1600
- PTFE liner thickness up to 13 mm

MATERIALS  
EXPERTISE

01

ANTICORROSION  
EQUIPMENT

**PROCESS  
SOLUTIONS  
FOR CORROSIVE  
ENVIRONMENTS**

04

02

03

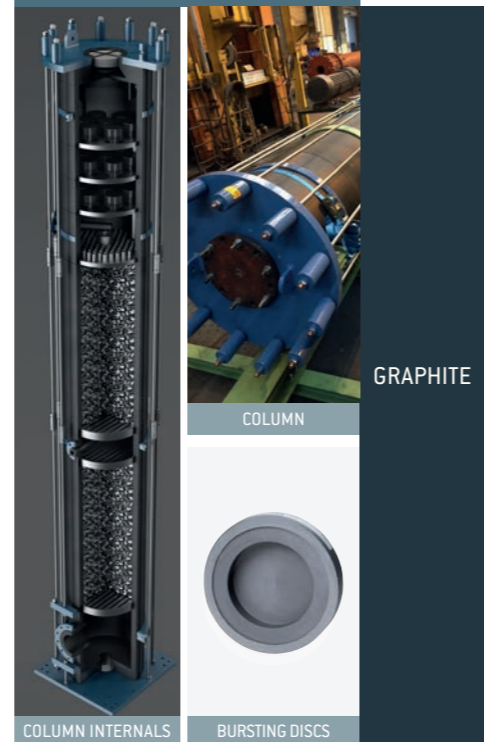
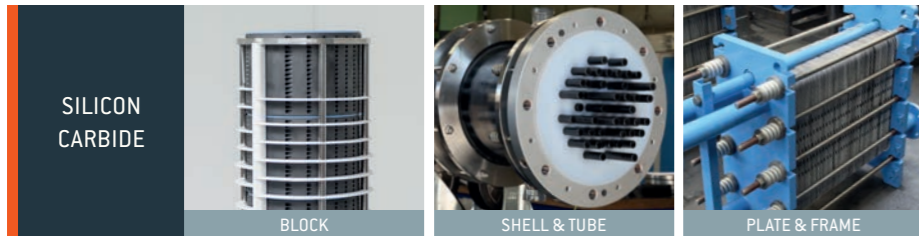
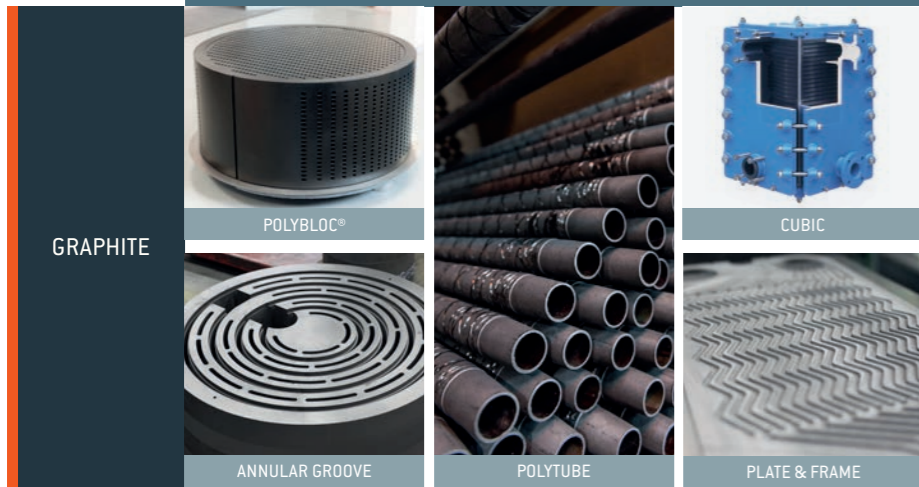
PROCESS KNOW-HOW AND  
TECHNOLOGIES PROVIDER

LIFETIME SERVICE  
AND MAINTENANCE



HEAT EXCHANGERS

PRESSURE VESSELS, COLUMNS & BURSTING DISCS



WITH OUR LARGE RANGE OF PROCESS TECHNOLOGIES, COMBINING WITH OUR CORROSION RESISTANT MATERIALS, WE CAN PROVIDE YOU AN ENGINEERED SOLUTION TO TRANSFORM YOUR CORROSIVE FEED STOCK.

- Market leader position in HCl processes (concentration, distillation, absorption, synthesis)
- From process know-how to skid-mounted turn-key delivery

PROCESS FUNCTION	H <sub>2</sub> SO <sub>4</sub>	HCl	Cl <sub>2</sub>	HBr	Br <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>
Absorption		✓		✓		
Burner		✓	✓	✓	✓	
Concentration	✓	✓		✓		✓
Dilution	✓	✓		✓		✓
Gas Drying		✓	✓	✓		
Distillation/Desorption/Stripping		✓	✓	✓		
Gas cleaning / Vent treatment		✓	✓	✓	✓	
Inorganic removal	✓	✓				✓
Organic removal	✓	✓		✓		✓
Production		✓		✓	✓	
Temp. Control	✓	✓		✓		✓
Vaporizer		✓	✓	✓	✓	
Vacuum system	✓	✓	✓	✓		✓

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04

## SERVICE

We follow the equipment through its entire life. Our services include preventive maintenance, on-site inspection and process diagnostics. We can send our experts to your site to audit and provide recommendations to increase the performance of our equipment.



**On-site or remote service**

Start up

After-sales and Maintenance

Support improvements

Audit

Training

**+ With 19 service centers located in 5 continents, we are able to provide 24/7 service to our customers.**



## WHY MERSEN?

- MATERIALS EXPERTISE (GRAPHITE, SIC, ZIRCONIUM, PTFE, PFA)
- LARGEST PORTFOLIO OF CORROSION RESISTANT ENGINEERED EQUIPMENT
- PROCESS TECHNOLOGIES KNOW-HOW
- INDUSTRIAL AND SALES PRESENCE ON ALL THE 5 CONTINENTS
- 125 YEARS EXPERIENCE

## KEY APPLICATIONS

Mersen anticorrosion process equipment operates in the fine chemical, chemical, pharmaceutical and process industries, notably in the manufacturing of active pharmaceutical ingredients (API), herbicides, pesticides, flavors and fragrances, chlor-alkali, phosphoric acid, isocyanates, epichlorohydrin, electronic grade chemicals, pickling baths and many other products



## GLOBAL EXPERT IN ELECTRICAL POWER AND ADVANCED MATERIALS

### EUROPE, MIDDLE EAST & AFRICA

FRANCE  
[info.pagny@mersen.com](mailto:info.pagny@mersen.com)

GERMANY  
[info@gab-neumann.de](mailto:info@gab-neumann.de)

ITALIA  
[ace.italia@mersen.com](mailto:ace.italia@mersen.com)

MIDDLE EAST & AFRICA  
[info.pagny@mersen.com](mailto:info.pagny@mersen.com)

RUSSIA & EASTERN EUROPE  
[info.pagny@mersen.com](mailto:info.pagny@mersen.com)

SOUTH AFRICA  
[SA.marketing@mersen.com](mailto:SA.marketing@mersen.com)

SPAIN  
[contact.iberica@mersen.com](mailto:contact.iberica@mersen.com)

THE NETHERLANDS  
[contact.schiedam@mersen.com](mailto:contact.schiedam@mersen.com)

TURKEY  
[sales.istanbul@mersen.com](mailto:sales.istanbul@mersen.com)

UNITED KINGDOM  
[ace.uk@mersen.com](mailto:ace.uk@mersen.com)

### ASIA

CHINA  
[info.xianda@mersen.com](mailto:info.xianda@mersen.com)

INDIA  
[sales.ace.india@mersen.com](mailto:sales.ace.india@mersen.com)

JAPAN  
[sales.am.jpn@mersen.com](mailto:sales.am.jpn@mersen.com)

KOREA  
[sales.korea@mersen.com](mailto:sales.korea@mersen.com)

SOUTH EAST ASIA  
[graphite.sales@framet.com](mailto:graphite.sales@framet.com)

### NORTH AMERICA / CANADA

USA Salem VA  
[sales.salem@mersen.com](mailto:sales.salem@mersen.com)

USA Gonzales LA  
[Graphiterepairs.gonzales@mersen.com](mailto:Graphiterepairs.gonzales@mersen.com)

USA Louisville KY  
[Sales.lgi@mersen.com](mailto:Sales.lgi@mersen.com)

### SOUTH AMERICA

ARGENTINA  
[infos.latam@mersen.com](mailto:infos.latam@mersen.com)

BRAZIL  
[vendas.ace.brasil@mersen.com](mailto:vendas.ace.brasil@mersen.com)

CHILE  
[ventas.chile@mersen.com](mailto:ventas.chile@mersen.com)

COLOMBIA  
[ace.latam@mersen.com](mailto:ace.latam@mersen.com)

MEXICO & LATIN AMERICA  
[ace.latam@mersen.com](mailto:ace.latam@mersen.com)

