Heat exchangers
Reactors, columns & vessels
Piping
Expansion joints / bellows
Rupture discs
After-sales service
Process technologies
**WHY MERSEN?**

- Materials expertise (Graphite, SiC, Tantalum, PTFE)
- Large portfolio of corrosion resistant engineered products
- Process Technologies know-how
- 5 major production sites
- 10 Local quick service centers, situated close to our customers
- 120 years experience

**Mersen Anticorrosion Equipment** is internationally recognized for its expertise in the design and manufacture of heat exchangers, vessels, reactors, columns, and piping. Its skills in materials resistant to corrosion such as graphite, silicon carbide, tantalum, zirconium, PTFE ensure to propose the best solution coping with the process conditions.

Mersen has also an in-depth expertise in the process technologies covering a flexible offer up to skid-mounted turn-key delivery.

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**OUR KEY MARKETS**

**CORROSIVE CHEMICALS**
- Chlor alkali
- Fertilizers (phosphoric acid)
- Bromine
- Fine chemicals
- Agrochemicals
- Pigments
- Performance plastics
- Siloxanes
- Water treatment

**ENERGY**
- Renewable: photovoltaic, biofuel, geothermal
- Nuclear power
- Conventional thermal power

**PROCESS INDUSTRIES**
- Metallurgy
- Pulp & Paper
- Hydrometallurgy
When process conditions combine both corrosion and temperature, material selection becomes a key criteria of the engineered product. For more than 120 years, Mersen has developed advanced materials and process equipment expertise, to provide customized solutions capable of handling your severe processes.

**GLOBAL EQUIPMENT AND TECHNOLOGIES PROVIDER FOR CORROSIVE ENVIRONMENTS**

**ADVANCED MATERIALS**

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

Graphilor®’s use of ultra-fine grain isostatic graphite, is unique in the Chemical markets.
- Highest mechanical resistance for graphite (up to 36 MPa)
- High temperature resistance (up to 400°C) with Mersen’s exclusive carbon impregnation (XC)
- Impregnation know-how : 3 different impregnations types (Phenolic Resin XBS, Carbon XC and PTFE XTH) to comply with your process corrosion constraints

**SILICON CARBIDE HEAT EXCHANGERS, HAVING “UNIVERSAL CORROSION RESISTANCE” SPECIFICALLY SUITABLE FOR HIGHLY AGGRESSIVE CHEMICAL COMPOUNDS**

- Mersen Boostec® has mastered internally the key steps from the SiC powder through to the final heat exchanger
- SiC solves your problems of very high temperature, abrasion and erosion
- Allows high pressure resistance up to 40 bar

**TANTALUM, THE MOST SUITABLE REACTIVE METAL FOR STRONG ACIDS**

- Tantalum engineered products are the preferred corrosion resistant solution, to handle highly corrosive acids up to 250 Deg. C

**CL-CLAD® TECHNOLOGY IS Mersen’S PATENTED ALTERNATIVE SOLUTION TO EXISTING CLADDING TECHNOLOGIES**

- A cost-effective tantalum cladding technology

**ARMYLOR® PTFE LINED FITTINGS, PIPING AND COLUMNS, WITH SPECIAL EXPERTISE IN LARGE DIAMETERS**

- Seamless construction : diameter up to DN1600
- Welded construction : any diameter
- Available materials : PTFE, TFM or PFA
## Anticorrosion Equipment

<table>
<thead>
<tr>
<th>HEAT EXCHANGERS</th>
<th>REACTOR, VESSELS AND COLUMNS</th>
<th>PIPING BELLows ACCESSORIES</th>
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<tbody>
<tr>
<td>GRAPHITE</td>
<td>BLOCKS, CUBIC AND TUBES</td>
<td>RUPTURE DISCS</td>
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<td>SILICON CARBIDE</td>
<td>BLOCKS AND TUBES</td>
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<tr>
<td>TANTALUM</td>
<td>TUBES AND BAYONETS</td>
<td>TANTALUM SMALL PARTS</td>
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<td>ZIRCONIUM</td>
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<td>TITANIUM</td>
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<td>PIPING AND BELLows</td>
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<td>NICKEL ALLOYS</td>
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</table>

**After-sales Service**
With our innovative range of Process Technologies combining with corrosion resistant materials, we can provide you an engineered solution to transform your corrosive feed stock.

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

<table>
<thead>
<tr>
<th>PROCESS FUNCTION</th>
<th>H₂SO₄</th>
<th>HCl</th>
<th>Cl₂</th>
<th>HBr</th>
<th>Br₂</th>
<th>P₂O₅</th>
<th>Brine</th>
<th>Flue Gas</th>
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GLOBAL EXPERT IN ELECTRICAL POWER AND ADVANCED MATERIALS

EUROPE
FRANCE
Mersen France Pry S.A.S.
Tel: +33 (0) 83 81 60 81
info.pagny@mersen.com

GERMANY
Mersen Deutschland
Linsegericht GmbH
Tel: +49 (0) 6051 71 037
info.lsg@mersen.com

ITALIA
Mersen Italia S.p.A.
Tel: +39 02 82 681 31
ce.italia@mersen.com

SPAIN
Mersen Iberica fma. S.A.
Tel: +34 93 685 7800
olga.martinez@mersen.com

THE NETHERLANDS
Mersen Benelux B.V.
Tel: +31(0)10 298 30 30
contact.schiedam@mersen.com

UNITED KINGDOM
Mersen UK Teesside Ltd.
Tel: +44 (0)1642 790100
victoria.stephenson@mersen.com

RUSSIA & EASTERN EUROPE
Tel: +7 (964) 768 14 05
jean-pierre.lemoine@mersen.com

TURKEY
Mersen Istanbul San. Ür. A. Ş.
Tel: +90 262 751 0262
sales.istanbul@mersen.com

ASIA
CHINA
Mersen XIANDA
Tel: +86 21 5752 7777
info.xianda@mersen.com

INDIA
Mersen India
Tel: +91 9845331292
/+91 9840078844
sales.ce.india@mersen.com

JAPAN
Mersen FMA JAPAN K.K.
Tel: +81 (3) 5368-3250
hajime.kagaya@mersen.com

KOREA
Mersen Korea Co., Ltd.
Tel: +82 (0)2 599 0071
sales.korea@mersen.com

SOUTH EAST ASIA
Tel: +65 6739 7155
srikrishna.natesan@mersen.com

NORTH AMERICA
USA
Mersen USA Salem
Tel: +1 540 389-7535
joel.svec@mersen.com
Mersen USA Gonzales
Tel: +1 225 647-6752
dsholar@mersen.com

AFRICA
MOROCCO
Mersen Maroc S.A.R.L.
Tel: +212 (0) 523 38 30 12
contact.maroc@mersen.com

SOUTH AFRICA
Mersen South Africa, (Pty) Ltd.
Tel: +27 011 474 0000
keith.pillay@mersen.com

MIDDLE EAST & AFRICA
Tel: +33 (0)3 83 81 60 81
info.pagny@mersen.com

SOUTH AMERICA
ARGENTINA
Mersen Argentina, S.A.
Tel: +54 11 4529 1160
jorge.lopes@mersen.com

BRAZIL
Mersen Do Brasil, Ltda.
Tel: +55 (11) 4529 1160
jorge.lopes@mersen.com

CHILE
Mersen Chile
Tel: +56 (2) 2684588
ventas@mersen.cl

COLOMBIA
Mersen Colombia
Tel: +57 (1) 3454588
ace.latam@mersen.com

MEXICO & LATIN AMERICA
Mersen Mexico Monterrey
Tel: +52 (81) 8127 2812
ace.latam@mersen.com

WWW.MERSEN.COM