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

CORROSIVE CHEMICALS
ANTICORROSION EQUIPMENT
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.

OUR KEY MARKETS

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

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.

**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>
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<td>Silicon Carbide</td>
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<td>Tantalum</td>
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<td>Zirconium</td>
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<td>PTFE</td>
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## 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

### PROCESS FUNCTION

<table>
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<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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