

CORROSIVE CHEMICALS

ANTICORROSION EQUIPMENT





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

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

RESISTANT GRAPHITE



GRAPHILOR®, THE SUPERIOR MECHANICAL AND CORROSION

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

 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

PIPING BELLOWS HEAT **REACTOR, VESSELS AND COLUMNS EXCHANGERS ACCESSORIES** GRAPHITE BLOCKS, CUBIC AND TUBES **RUPTURE DISCS SILICON CARBIDE BLOCKS AND TUBES TANTALUM TUBES AND BAYONETS** TANTALUM SMALL PARTS **ZIRCONIUM TITANIUM NICKEL ALLOYS** PTFE PIPING AND BELLOWS **AFTER-SALES SERVICE**

PROCESS TECHNOLOGIES

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	H ₂ SO ₄	HCI	CI ₂	HBr	Br ₂	P ₂ 0 ₅	Brine	Flue Gas	FeCI ₃
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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