CGThermal

Process Technology Solutions for
Harsh and Corrosive Process Streams

- The CG Approach
- Our Capabilities and Areas of Expertise
- Advantages of working with us

CGThermal

Process Technology Solutions for Harsh and Corrosive Process Streams

Our mission at CG Thermal is to provide the industry with process technology solutions for harsh and corrosive process streams.

We will use our expertise and partner with customers to provide technologies and innovative solutions to minimize operational costs and maximize productivity.

Our values:

- **Listen** to customers
  - **Understand** and **anticipate** their needs
- **Transparency**
  - Encourage open dialogue to jointly reach optimal solutions
- **Take "ownership"** of equipment and systems supplied
- **Innovation**
  - Continuous improvement in products and services
- Expand our range of expertise
  - Partnering with process and equipment **experts worldwide**

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Process Technology Solutions for
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We combine our **heat/mass transfer expertise** and **fabrication capabilities** with our **process expertise** to deliver optimal, proven processing technology solutions.

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Partnering for Optimal Plant Productivity

- **Turnkey Packaged Unit**
- **Engineering Services**
- **Optimization Consulting**
- **Customer Specific Process Equipment**
- **Engineering and Technology Support**

Process System Expertise

Additional Areas of Expertise

- **HCL** Recovery
- HCL Synthesis
- **AHCL** Production
- HCL Azeotrope Breaking
- HCL Stream Conditioning
- **P2O5** Burners
- **H2SO4** Dilution
- H2SO4 Regeneration
- **Cl2** Recovery
- VOC Stripping / Scrubber

Specialized Materials

With expertise to recommend the most appropriate option for your harsh process requirements

- **Impervite® Graphite**
- **Umax® SiC Ceramic**
- **PPS-GR**
- **Fluoropolymers**
- **SST/Nickle-based Alloys**

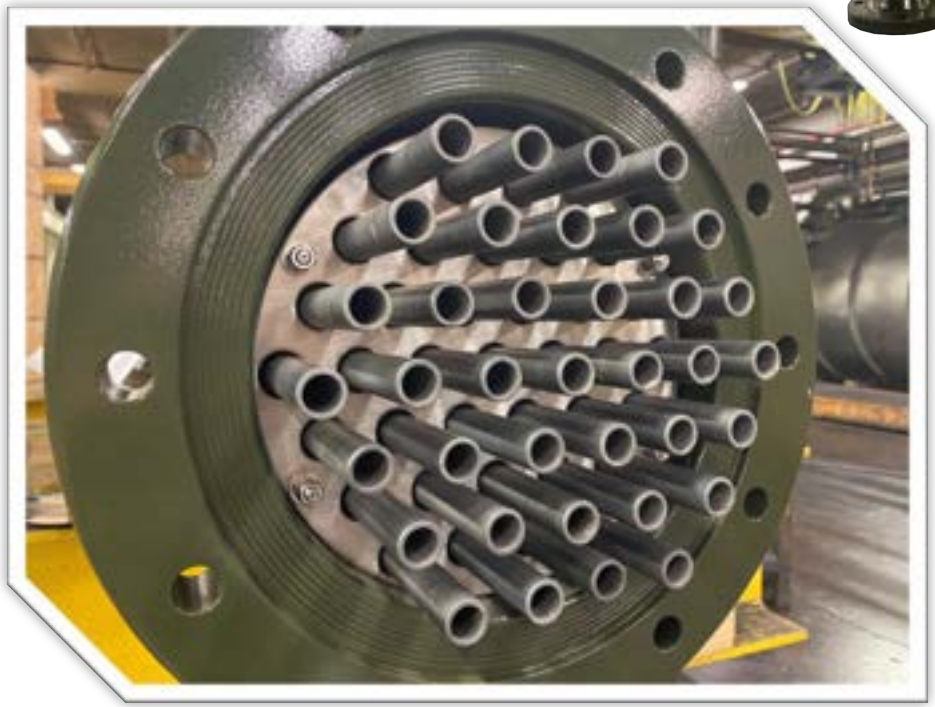
Impervite® Graphite

- **Excellent corrosion resistance** in reducing environments with higher chloride concentrations.
- Higher thermal conductivity and thermal shock resistance.
- Fully graphitized, more ductile graphite resulting in **extended operating life.**

- **Corrosion resistant in all concentrations of HCL and up to 85% H_2SO_4.**

Umax® SIC Advanced Ceramic

- Universally **erosion and corrosion resistant**
  - **Alpha sintered SiC** tube with no free silicon
  - Extremely hard, easy to clean surface.
- **Unmatched** thermal conductivity for excellent thermal efficiency



Impervite® PPS-GR

- Graphite composite material
- Extended **corrosion resistance in HCl, H2SO4 and P2O5 applications.**
- Superior **resistance to thermal shock**
- Ductile material **resistant to vibration stresses**
- Higher pressure applications
- **Resistant to fouling and easily cleaned**

ASK FOR A TEST COUPON

AirBTU.VPRR

SST/Nickel-based Alloys

- Well suited for **high temperature gas to gas** applications.
- Can operate in excess of **2000 Deg F temperature**
- Highly Engineering to avoid stress failures, hot spots, and cold-end corrosion.

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Fluoropolymer Lined Components

- **Loose Liners** for simple shaped structures with positive pressure conditions.
- **Bonded Liners** for structures with simple or complicated shapes and vacuum or positive pressure conditions.
- **Rotolining** for structures with complicated shapes under vacuum or positive pressure conditions, with no welds or seams.
- **Liquid or Powder Coatings** for structures with complicated shapes under vacuum or positive pressure conditions, with no welds or seams, where permeability is not a great concern.

CGThermal Advantage





Our Expertise

Heat/mass transfer
Fabrication of Process Equipement
Process Design

Our Values

Listening and Transparency
Commitment to Customer/Project success
Commitment to Innovation

Your Best Solution

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