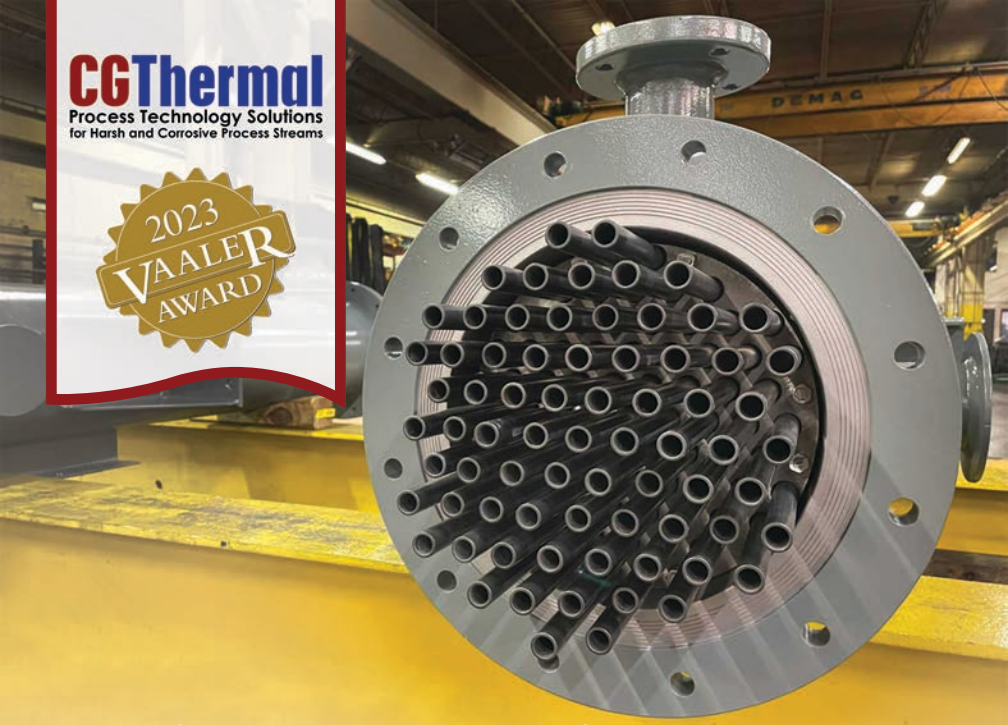
CGThermal
Process Technology Solutions
for Harsh and Corrosive Process Streams

2023 VAALER AWARD



Impervite® Advanced Graphite

Shell and Tube Heat Exchanger

Next Generation Graphite

Completely Field Repairable • Resistant to Thermal Shock
Low Fouling • Corrosion Resistant • Proprietary Sealing System

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The proprietary tube in the Impervite® Advanced Graphite shell and tube heat exchanger combines the benefits of graphite and polymer materials to provide efficiency and reliability for water treatment, heat recovery, and process chemistries.

Advantages

Corrosion Resistance. The Impervite® Advanced Graphite composite tube has been subjected to testing in various corrosive acid streams at elevated temperatures with excellent results. The tube will not degrade with operation as would a metal tube having annual corrosion rate.

Low Fouling and Ease of Maintenance. The Impervite® Advanced Graphite tube has excellent surface quality which results in a low propensity to foul. In addition to a reduced potential to fouling, deposits have a weak bond with the tube. This non-adhesive behavior allows successful surface cleaning using only water at relatively low pressure.

Completely Field Repairable. If ever required, individual tubes can be replaced in the field simply and economically without the need for special tools and/or highly specialized welding procedures. This can be accomplished on site with a simple, straightforward operation, eliminating shipping concerns and minimizing downtime.

Superior Thermal and Mechanical Shock Resistance. This composite graphite tube is much more ductile than traditional impervious graphite tubes. As a result, it is more resistant to vibration and other mechanical stresses. Additionally, the low CTE and tube to tubesheet seal of the Impervite® Advanced Graphite shell and tube heat exchanger offer built-in superior resistance to thermal shock.

Proprietary Self-Contained Elastomeric Sealing System. The proven tube to tubesheet seal system utilizes a combination of specifically selected elastomeric seals and Teflon support rings. When coupled together with the close tolerance tube nut and tubesheet hole, it results in a highly reliable, static, self-contained seal that is 100% leak free with exceptional service life.

MADE WITH PRIDE IN THE USA
100% AMERICAN OWNED & OPERATED

cgthermal.com Twinsburg, OH