



Vipertex[®]
ENHANCED METAL SURFACES

Now ASTM & ASME Approved

POWER OF VIPERTEX[®]

A patented metal surface technology for
enhanced heat transfer.



ENHANCED SURFACES AND HEAT EXCHANGE DESIGN.

Various industries are aggressively working to incorporate enhanced heat transfer surface technology into their designs. Virtually every heat exchange device is a potential candidate for enhanced heat transfer.

Vipertex® differs from smooth surface tubes by:

- Increasing the process surface area
- Interrupting the development of the boundary layer
- Increasing the degree of turbulence
- Generating rotating secondary flows
- Increasing the rate of heat transfer
- Lowering required flow rates = reduced power requirements
- Providing a smaller heat exchanger footprint

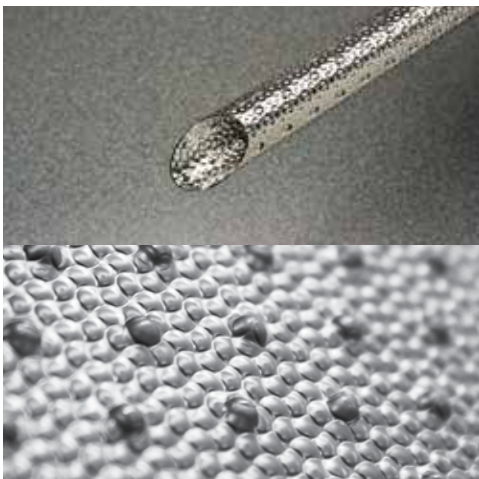


Vipertex® is the Heat Transfer division of Rigidized® Metals Corporation – a company backed by more than 75 years of experience in deep-textured metals, renowned dependability, and unsurpassed customer service. Plus, with global distribution, you can count on Vipertex® to deliver, no matter where your project is located.

TYPICAL ENERGY SAVINGS USING VIPERTEX® ENHANCED TUBES

Vipertex® increase in heat exchange.....	10%
Vipertex® energy \$ recovery per day (current calc).....	\$1,545.98*
Vipertex® energy \$ recovery per year (current year).....	\$564,284.16*
Payback (years) based upon Vipertex® recovery.....	0.64

*The above example is based on an analysis performed for a unit that has a heat exchanger duty of 7,320,000 BTU/hr and assuming a cost of energy to be 8.00 \$/M BTU. Other conditions will produce different results.



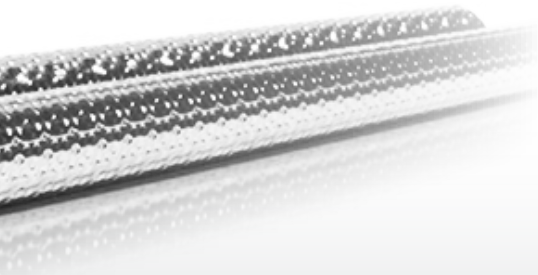
1EHT



2EHT

VIPERTUBE®: TAKING TUBE TECHNOLOGY TO THE NEXT LEVEL.

Vipertube® utilizes the advantages of the Vipertex®-enhanced surfaces. Vipertube® is manufactured for the highest level of quality in high-pressure tubing. Since every application is different, Vipertube® can be customized to meet your needs – including a variety of alloys and sizes, electro-polishing, bending, and coiling capabilities.



Inside view of Vipertex®
1EHT stainless tube



1EHT

IDEAL FOR ALL INDUSTRIES:

- Oil and Gas
- Power Generation
- Chemical
- Petrochemical
- HVAC
- Process
- Food Processing
- Alternative Energy
- Hot Water Tanks



Coil



Twisted Tape



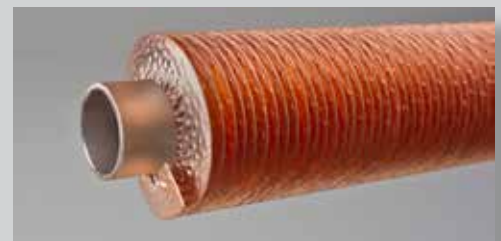
U-Tube



Enhanced Outside Surface



Bundles

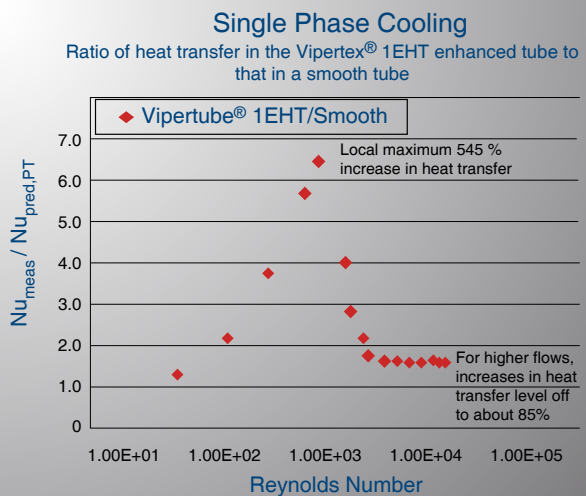
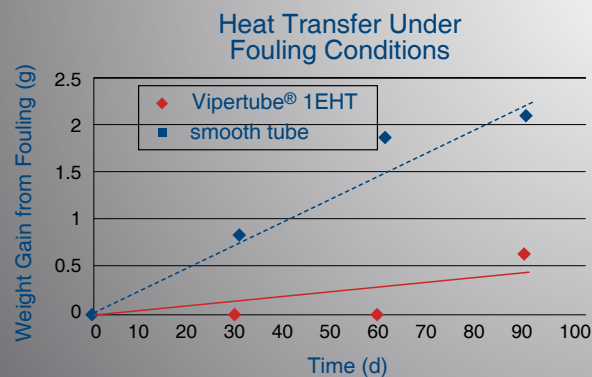
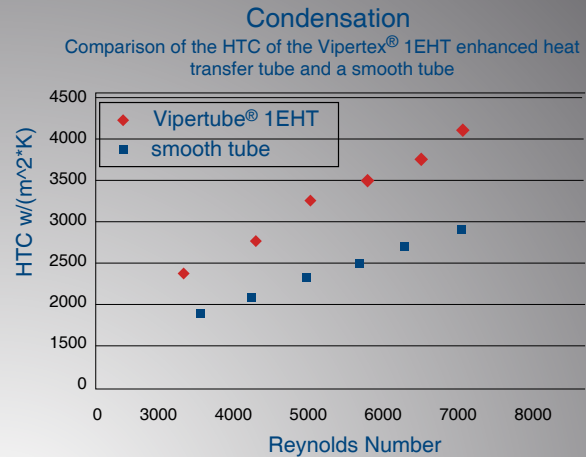
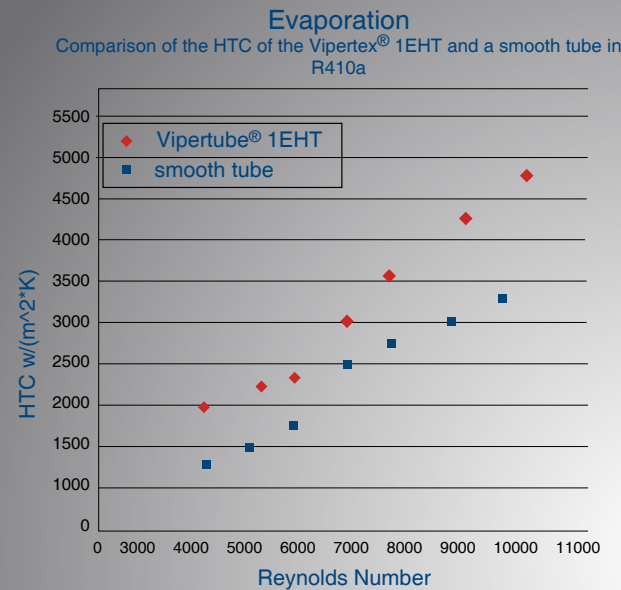


Fin Tube

VIPERTUBE® SPECIFICATIONS:

- Available diameters.....0.375–2.0 in. (9.525–25.4 mm), alloy dependent
- Wall thicknesses.....Various wall thicknesses available, alloy dependent
- Core Materials.....Stainless steel, carbon, copper and aluminum
- Manufactured to **ASTM A1098** specifications
- Additional sizes, gauges and alloys available

VIPERTUBE® VS. SMOOTH TUBES - INCREASED HEAT TRANSFER



The difference is clear. Vipertube® outperforms — and is a significant upgrade over — standard smooth tubes.

HARNESS THE POWER OF VIPERTEX® TODAY.

For more information on Vipertex® products, including enhanced heat transfer tubes and surfaces, fins, solar surfaces, and heat sinks, contact 800.836.2580 or info@vipertex.com.



658 Ohio Street, Buffalo, New York 14203 www.vipertex.com

Vipertex®, Vipertube® and Rigidized® are registered trademarks. ©2016 by Rigidized® Metals Corporation 12/16