Challenge

Background
A chemical plant which produces raw materials for use in the body care industry was experiencing sealing issues with their shell and tube heat exchangers. The equipment was subjected to constant temperature cycling and had premature failure despite preventative maintenance.

Solution

Product
The heat exchanger was upgraded with Chesterton’s Live Loading System:
- Chesterton 5500 Flange Bolt Disc Springs maintain constant compression on the gasket seal to reduce/eliminate leakage.
- Chesterton Steel Trap™ metal/graphite gaskets withstand high pressure and high temperature as well as increased blow out safety. It can be manufactured in virtually any shape.

Results

Premature failure of the heat exchanger is no longer an issue with Chesterton Live Loading systems. The Steel Trap gasket is changed yearly for preventive maintenance. Three additional heat exchangers were upgraded to the same solution.