Sealing for a Safer and Greener Tomorrow

TEADIT® CMS Plant
CASE HISTORY

INDUSTRIAL SEGMENT
Chemical Manufacturing

APPLICATION
Chloromethane Derivative (CMS)

Equipment
Heat Exchanger

SCENARIO
A chemical plant was having issues with skived virgin PTFE gaskets failing in a heat exchanger application. They were experiencing daily leaks causing a minimum of 2 hours of maintenance downtime.

SOLUTION
Teadit support personnel immediately recognized two factors that were contributing to the customer's issues. First, the skived PTFE was not suitable for the application because it is highly susceptible to creep and cold flow which is compounded greatly as temperature increases. This means that the gasket exhibits poor recovery and bolt load retention. This was compounded even further by the fact that the site's maintenance personnel were not using flange assembly best practices (factor #2). To solve these issues, a high-quality restructured PTFE gasket (Tealon 1580) was recommended to replace the skived PTFE gasket they were using. Next, Teadit field and technical personnel worked with the site to train their maintenance crews on flange assembly best practices as detailed in ASME PCC-1 to ensure that the gasket was being installed properly.

CUSTOMER GAINS
After properly installing the Tealon gaskets, the leakage issue was eliminated completely. A follow-up check after 1 month continued to show no signs of leaks. The site was able to continue to run uninterrupted.