

TEADIT[®] 24SH in Chemical Processing

CASE HISTORY

INDUSTRIAL SEGMENT

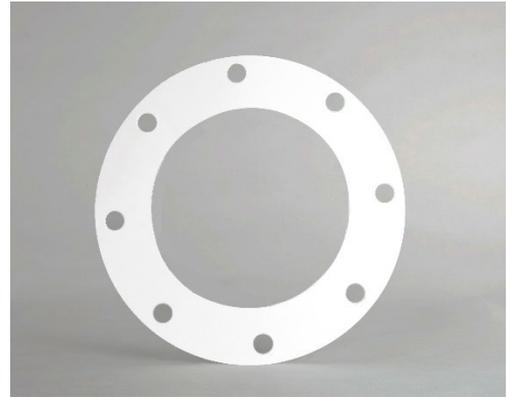
Chemical Processing

APPLICATION

Hydrogen Chloride

Equipment

FRP Piping / Flanges



SCENARIO

A chemical processing facility was experiencing leaks on FRP flange connections due to damage to the flanges caused by the use of gaskets that were not suitable for the requirements of low strength flanges, like FRP.

SOLUTION

Teadit's technical team worked with the customer to assess the extent of the damage to the existing flanges. It was determined that with the proper gasket material, the existing flanges could be salvaged, and an effective seal could be achieved. Teadit recommended the use of 24SH expanded PTFE gaskets. 24SH is made from 100% virgin PTFE, so it can handle even the most aggressive applications. Through the expansion process, the material becomes highly compressible and works well in low sealing stress applications, like FRP, while also conforming to imperfect flange surfaces. An assembly procedure was developed to ensure that the flanges would seal properly without experiencing additional damage moving forward.

CUSTOMER GAINS

After installing the 24SH gaskets, the process has been running for 2 years leak free. Additionally, the existing FRP flanges were saved, resulting in a significant cost avoidance for repairs/replacement and downtime.