

TEADIT[®] TF1570 CASE HISTORY

Industry:

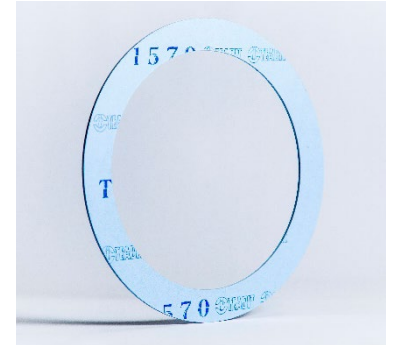
Chemical

Application:

Chlorine (gas)

Equipment:

Bromine Tower



SCENARIO

A major chemical plant was working with recurrent leakages in their Bromine Tower, causing production to use alternative resources in the process due to the equipment inefficiency. Not only did these reoccurring leakages cause a reduction of productivity, the chlorine leaks also created a huge risk for explosion, putting the lives of the employees and the surrounding neighborhood in danger.

SOLUTION

The customer called Teadit in to consult on this issue and it was detected that the use of rigid PTFE gaskets (skived or molded) on the Bromine Tower main flanges were to be blamed for the leakages. This is because the gaskets they had been using couldn't conform into the flange surfaces. Considering this situation, Teadit suggested they use a gasket made of our Tealon[™] TF1570. This material has shown to be successful in use with very aggressive chemical media, and it also can achieve high compressibility to seal with low loads. For best performance of our Tealon[™] TF 1570, the correct torque was calculated to guarantee superior sealability without affecting the Bromine Tower operations.

CUSTOMER GAINS

Testing of the proposed solution was successful and the switch from their old sealing product to Teadit's TF1570 was made in their Bromine Tower facility. The customer reported that the recurrent leakages were 100% eliminated, not only increasing the productivity in their Bromine Tower but also saving them maintenance costs, as well as any costs that could have been associated with the potential for explosion they had been operating with.

