

Challenge

Background

A shipping company had LNG (Liquefied Natural Gas) tankers, which take several days to fill. The gas is liquefied by lowering its temperature to -163°C . For every loading and unloading, operation pipelines are connected to the ship and these must be sealed with a gasket.

The customer was experiencing cracking of the gasket on the body of a spray line valve and in other applications, resulting in unsafe leaks and unscheduled shutdowns.



Cracked gasket.

Solution

Product

Chesterton ECS-T Gaskets: a structured-filled PTFE gasket sheet that overcomes the issues that commonly arise when using PTFE gaskets.

- Offers a minimum service temperature of -200°C and is a good solution for use under cryogenic conditions
- Provide excellent performance in chemical applications where graphite is not resistant



Failed gasket.

Results

- Improved reliability, reduced maintenance
- The shipping company has been using the gasket successfully now for 10 years
- Used on flanges for the loading and unloading operations as well as for their permanent flanges
- Solution is reliable, saves maintenance time, money, and maintains uptime



Chesterton ECS-T Gaskets are mechanically stable unlike common PTFE gaskets.