# NICHIAS

**Insulating from leaks**

# Case study: Decreasing construction risks and leakages in utility lines
# TOMBO™ No. 1155 CLINSIL™ Next

### Industry
Oil & Gas

### Customer
Oil refinery

### Background
Customer was experiencing frequent leakages in their critical utility lines affecting the supply of steam that was part of the system that generated electric power in the facility. They were unable to locate the reasons for the frequent leakage aside from inadequate gasketing solutions.
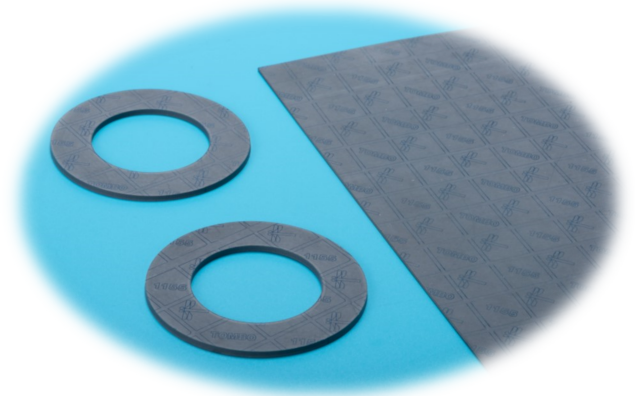
### Challenges faced
The critical utility line was exposed to high temperature and high pressure, and so the alternative gasket solution selection was limited for customer. They required a solution that would help reduce leakages and improve overall system efficiency in power output. Since the utility line was used to supply steam into the facility's electric power generation, customer was working with limited downtime to minimize the impact on facility's overall production and performance.

### Solution and benefits
NICHIAS reviewed the history of leakages and recognized a pattern in the faults. These were tracked to junior engineers installing the gasketing solution. Due to overtightening the bolts, the gasket used was put under too much stress which caused a breakage and therefore a leak. NICHIAS was then able to suggest TOMBO™ No. 1155 which can be overtightened without putting its structural stability at risk.

Therefore, it won't break and cause a leakage. Also, with a unique blend technology the gasket is also not prone to creeping when used in high temperatures. This further diminished risks of gasket damage and leak. Ultimately, NICHIAS was able to identify the reason behind the frequent leakages and propose measure for correction on site with a gasketing solution that provided sealing stability and limited construction risk.

For more information, please visit:
https://www.nichias.co.jp

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