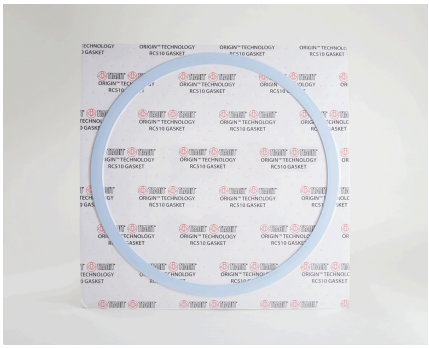
Sealing for a Safer and Greener Tomorrow

TEADIT® Railcar Lid Gaskets
CASE HISTORY



INDUSTRIAL SEGMENT
Ethanol Production

Equipment
Railcar Lid

SCENARIO
A major producer and shipper of ethanol in the U.S. Midwest was using elastomeric manway nozzle gaskets on their railcar lids. They were noticing that after 3-4 open-close cycles, the gaskets were experiencing failures. The thin nozzle was essentially acting like a knife and shearing through the soft rubber gasket material. Elastomeric gaskets are often a popular choice for railcar manways due to their low cost and ease of sealing. However, these benefits are offset by the material's susceptibility to over-compression/tearing and other common issues that can ultimately lead to failures and a higher total cost of ownership over other gasket options.

SOLUTION
Teadit recommend our patented Origin RC-510 gaskets. Manufactured from PTFE, these gaskets offered excellent compatibility with the service from a chemical resistance perspective. Additionally, during development, the RC-510 was tested on a number of manway configurations and showed excellent wear and reuse characteristics. That same level of performance has been seen in the field as well.

CUSTOMER GAINS
While the Origin RC-510 costs about 25% more than the Viton gasket they had been using, the overall savings in replacement costs of the gaskets and the related maintenance and downtime were substantial. The RC-510 achieved a minimum of 3X the number of reuses in service equating to a 60-70% reduction in material costs alone, and even greater savings in maintenance and downtime reductions. The total cost of ownership for the RC-510 was significantly lower than the less expensive elastomeric gasket. Sometimes, you truly do get what you pay for!