

Case Study: GYLON EPIX® 3510 - Chloralkali and Chlorine Processor



INDUSTRY

Chemical

CUSTOMER

Large Chloralkali and Chlorine Processor and supplier

BACKGROUND

This plant site has both FRP and lap joint nickel pipe flanges.

CHALLENGES FACED

Hired contractors assisting the customer during outages were over tightening and rupturing the PTFE cover of Garlock STRESS SAVER® 370 in nickel lap joints. STRESS SAVER® 370 is a discreet gasket molded to fit specific flange sizes. Other flange gasket seals were unreliable in FRP flanges due low bolt torque allowed. The plant is converting to be predominately nickel pipe systems. The primary motivation to consider a new gasket was the customer's need to consolidate to the fewest number of gaskets that would be good in chloralkali process media, metal lap joint flanges and FRP flanges. The customer also desired a gasket that would come in sheet form, to give them the flexibility to produce any size and shape of gasket desired.

OPERATING CONDITIONS

Temperature – 194°F (90°C) - 203°F (95°C)

Application – Nickel pipe with lap joints and weld neck RF flanges

Media – Potassium hydroxide, and Catholite

Pressure – 50 to 70 psig

Size – 6" ring and full face gaskets

SOLUTION AND BENEFITS

GYLON EPIX® 3510 was selected for its ability to seal the customer's flange types and compatibility with the range of chemical media found in chloralkali processes. GYLON EPIX® 3510 was installed in September of 2018 and provided leak free service after a trial period ending in October of 2019, proving to be the ideal sealing solution for this application.

For more information, please visit:

<http://www.garlock.com>

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