

## Case Study: GYLON EPIX® Style 3504 Agrochemical Processing



### INDUSTRY

Chemical Processing / Agrochemical

### BACKGROUND

The processing facility offers a range of innovative and environmentally sustainable products to fight pests, weeds, and disease, increasing quality, and yield for their customers. Their focus is on cyanide-based chemical specialties and agricultural chemicals, including next-generation fumigants and biocides.

### CHALLENGES FACED

The application has a flange joint at the inlet/outlet of a plate and the frame heat exchanger. One flange is glass-lined and the other is coated with PTFE. The media being sealed, cyanogen chloride, is highly toxic. The facility initially tried expanded PTFE gaskets to seal the flange. This provided good resistance to the media, but fugitive emission leaks set off alarms indicating the area was unsafe. EPDM and FKM rubber gaskets were then used as an alternative. This approach sealed the flange but lasted for less than six months.

For more information, please visit:  
<http://www.garlock.com>

### OPERATING CONDITIONS

Size: 90mm x 162mm & 70mm x 142mm

Temperature: 60°C (140°F)

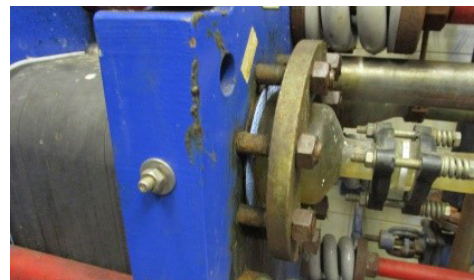
Application: Glass lined & PTFE flanges

Media: Cyanogen chloride (chlorocyan), water & HCl - 2.7%

Pressure: -0.2 bar (-3 psig)

### SOLUTION AND BENEFITS

Garlock worked with the customer to understand their unique challenges and recommended GYLON EPIX® Style 3504 EPX. This solution was tested with the glass-lined flange and the PTFE coated flange. The result was impressive. GYLON EPIX® Style 3504 EPX lasted more than a year, prevented leaks, and did not require retightening. No imprints of the raised profile appeared on the glass or PTFE-lined flanges. The facility then converted all gaskets to GYLON EPIX® on the given exchanger.



#### GARLOCK

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