AESSEAL®
ENVIRONMENTAL TECHNOLOGY

Reduced downtime, improved safety

A leading global supplier of speciality chemicals, based in Virginia, USA, was using gland packing to seal its Armstrong –Chemtec crystalliser (scraped surface heat exchanger)

The packing did not provide adequate sealing, allowing acetone vapours and fatty acids to leak out. This presented health and safety issues due to the potential inhalation of damaging fumes, slip hazards and fire risk, as well as leading to sleeve wear and bearing failure.

Constant adjustment to the packing was required, while repairs to damaged sleeves and bearings typically took two maintenance operatives up to eight hours to complete.

AESSEAL® tailored a unique solution to the problem.

It replaced the packing on nine glands with single monolithic stationary seals (SMSS-FMG), whose one-piece construction makes them less likely to distort in extreme temperature applications.

The new sealing solution meant there was no leakage to cause damage to the shaft sleeve or bearings, significantly reducing downtime and maintenance costs. The risks of atmospheric pollution, slipping and fire were also removed.

Such was its success that the company subsequently asked AESSEAL® to replace the packing on a total of 21 glands on five machines with SSMS-FMG seals.

‘Tailored a unique solution to the problem’

Industry:	Chemical
Product:	SMSS-FMG
Application:	Scraped surface hear exchanger
Country:	USA