



ENVIRONMENTAL TECHNOLOGY

FDGS™ improves safety and reliability at Spanish company

Outdated seal technology from the 1980s was causing problems for a Spanish pharmaceuticals company at its plant in the north of the country.

In an attempt to prolong the life of the seal, the company was in the habit of disassembling it once a year in order to carry out any necessary repairs and maintenance. However, in 2021 the sudden failure of the seal led to product contamination by the glycerin barrier fluid, resulting in the loss of the entire batch at a cost of more than €90,000 (more than \$100,000), not including the cost of downtime and the labour costs involved in carrying out repairs. In addition, the age of the seal meant that even when repaired, it did not comply with EU ATEX safety standards.

The company finally agreed with AESSEAL's recommendation to replace the outdated seal with the fully-certified FDGS™ Filter Dryer Gas Seal, using N2 barrier fluid so that in case of failure there would be less risk of losing the entire batch. Impressed with the reliability of the AESSEAL product, the company has since placed an order for a second FDGS™ seal as back-up.

The FDGS™ seal was installed in July 2024 and has been working for more than 18 months without a problem. In accordance with the requirements of the AEMPS (the Spanish Agency for Medicines and Medical Devices), the company ran three batches of product during September and October 2024 to validate the change to the equipment and to demonstrate the efficiency of the new seal. Not having to carry out annual repairs and maintenance is saving the company an estimated €30,000 (\$35,000) a year, with an increase in site safety guaranteed by its compliance with EU ATEX standards.



'Safer production with certified ATEX Zone 0 Seal'

Industry:	Chemical
Product:	Filter Dryer Gas Seal
Application:	Filter Dryer Sterile Zone
MTBF Increase:	50% (and counting)
Savings:	\$35,000 each year
Reference N.O:	TD3126299



aes seal.com/info