



ENVIRONMENTAL TECHNOLOGY

Reliability upgrade saves \$24k per year

A speciality chemical company in the USA was experiencing problems with the mechanical seal fitted on a venturi scrubber.

The single seal faces were regularly damaged by solids from the process fluid. The seal would subsequently leak heavily, causing harmful liquid to escape to the atmosphere. With the seal failing regularly (at best after a month's operation, at worst after just a week) the customer turned to AESSEAL® for a solution.

AESSEAL® recommended replacing the seal with the dual seal (DMSF™) along with an AES12 seal support system with cooler configured as per API Piping Plan 53a. This solution ensures the seal faces are provided with a clean cool barrier fluid and by being pressurised ensures that solids from the process fluid cannot enter the fluid film between the seal faces. The new seal and system was installed in May 2020 and has worked flawlessly now for more than a year, which is a significant improvement over the previous solution.

The cost of upgrading the pump was returned in just 7 months and the customer is making ongoing savings of more than \$24,000 per year. The customer was so satisfied with the performance of this solution that two further applications have also been upgraded to the same technology.



'Investment returned in 7 months'

Industry:	Chemical
Product:	DMSF™ and AES12™
Application:	Venturi Scrubber
Savings:	\$24,000 / year
ROI:	7 Months
Reference N.O:	CS0049



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