



ENVIRONMENTAL TECHNOLOGY

Specialty Chemical Company achieves improved reliability

A specialty chemicals manufacturer in the USA was experiencing ongoing reliability issues with the top mounted dual mixer seal on a vessel mixing silicone oil.

The viscosity of the oil in the vessel was variable and the vessel operated at full vacuum. The seal had a mean time between failure (MTBF) of just 3 weeks and when the seal failed barrier fluid leaked into the process fluid reducing the quality of the batch. When this happened the contents of the vessel had to be pumped into another vessel for finishing which caused production delays. The cost of removing, repairing and reinstalling the seal on an emergency basis was estimated to be in excess of \$12,000. An alternative solution needed to be found and AESSEAL® were approached for a recommendation.

AESSEAL® recommended replacing the competitors seal with the SCMS™ single mixer seal with the optional bearing module. The alternative solution was installed on the vessel in February 2021 and has been working flawlessly 14 months after installation. The customer is particularly satisfied with this solution as it does not require a barrier fluid therefore eliminating the potential for contamination of the product. The customer's upfront investment in the AESSEAL® solution was recovered in just 28 days.



'MTBF increase from 3 weeks to over 60 weeks'

Industry:	Chemical
Product:	SCMS™
Application:	Silicon oil mixer
MTBF Increase:	1900% (and counting)
Savings:	\$240,000 (and counting)
Reference N.O:	CS0034



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