



ENVIRONMENTAL TECHNOLOGY

## Autoclave specialist chooses AESSEAL® for reliability and customer service

A Turkish phosphate fertiliser was established following a requirement for Turkey to produce most its own phosphate fertiliser. Forty-four years later in 2018, it received a massive investment of 1.1 billion USD to increase its capacity in order to produce more than 750,000 tons of fertiliser per year.

With the plant looking to increase its production, the Turkish producer needed to factor in reliability. A Finnish equipment supplier was selected to provide their autoclave. The supplier had previously always used competitor seals and seal support systems in their previous projects. For this project, they selected AESSEAL® as the partner of choice for their mechanical seals. For this application the HPVD™, a high duty dual seal used for 'difficult' processes, was installed on the autoclave...



### '> 3 years MTBF for HPVD™ on Autoclave'

Industry:	Mining
Product:	HPVD™ and PumpPac™
Application:	Phosphate Autoclave
MTBF:	>3 Years
Reference N.O:	CS0217



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The application of the autoclave fitted with 5 top entry mixers operating a leaching process with high pressure steam, 25% sulphuric acid and oxygen concentration runs 24 hours a day, 7 days a week to meet the demand. Once the plant is fully operational, it will be operating up to 1000 pumps.

To ensure smooth running and reliability, AESSEAL® engineers were on site during installation and commissioning. The seal and seal support system were still running well over three years after installation and without any issues before being removed due to a planned removal. The customer was so pleased with the performance of the seal a new HPVD™ was installed which is still running successfully today.



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