



ENVIRONMENTAL TECHNOLOGY

Company reports huge savings with use of AESSEAL® system

The use of an AESSEAL® CDPH™ double mechanical seal is saving more than €280,000 (almost \$300,000) a year in energy costs for an alumina producer in the Republic of Ireland.

The company was using Warman® slurry pumps with a gland packing system, which required large quantities of water for lubrication and cooling of the packing. The decision to replace the gland packing with the more efficient CDPH™ mechanical seal has resulted in a fall in water consumption of more than 100,000 litres a day, amounting to savings of over 37 million litres a year.

The CDPH™ seal has fully machined glands to suit the AESSEAL® supplied adapter plate and pump sleeve in exotic material, and is specifically designed to meet the arduous requirements of slurry applications. Its large ports and increased radial clearances enable it to withstand high levels of pump vibration, and to maintain a stable fluid film for extended seal face life.

In 2022 the customer agreed with AESSEAL Ireland to take the seal for three-month trial period. This was highly successful, with the result that in early 2024 a second pump on this application was also converted from packing and fitted with a CDPH™ mechanical seal. As well as the dramatic reduction in water usage and energy costs, the CDPH™ seal, used in conjunction with AESSEAL's SW2™ water management system, is helping to provide a safer, more reliable, and more environmentally friendly operation.



‘Saving more than €300,000 a year in energy costs’

Industry:	Metal Processing
Product:	CDPH™
Application:	Bauxite slurry transfer
Savings:	>€300,000 (\$280k) each year
Water Savings:	>37 million litres each year
Reference N.O:	TD3112078



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