



ENVIRONMENTAL TECHNOLOGY

Improved reliability with reduced water cost

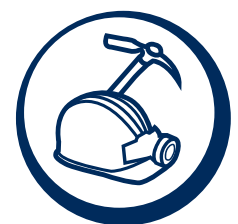
Gland packing was being used to seal lead ore slurry on Warman® pumps at two lead mines. The packing was proving to use a large quantity of water (typically of the order of 60l/min), damage the pump shaft, require frequent adjustment and require replacement as often as every month. In addition leakage from the pump was damaging bearings all leading to high on-going maintenance costs..

AESSEAL® were approached for an alternative solution. AESSEAL® offered the HDDSS seal and water management system. The HDDSS has been specifically designed for sealing slurry in large heavy duty pumps like the Warman® range. The HDDSS is a dual back to back seal with large radial clearances and a non-clogging multi spring design. The HDDSS has been installed in numerous mining applications and has contributed to millions of dollars in saving for customers. When used in conjunction with a water management system, the solution reduces water consumption significantly (to almost zero) as water is no longer lost to drain.

Since installing AESSEAL® solution the reliability has improved significantly to a MTBF of 7 months. There is no damage to the shaft from fretting, or the bearings from water leakage, in addition there has been a significant reduction in water consumption for both mines.

“Reducing slurry pump water consumption”

Industry:	Mining
Product:	HDDSS and water management system
Application:	Slurry Pump
MTBF:	7 months
Reference N.O:	3079N and 3098N



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