



ENVIRONMENTAL TECHNOLOGY

DMSC™ saves Nestlé Purina £182k in just 10 months

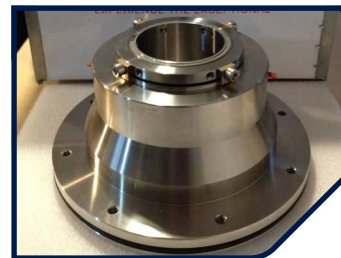
The installation of DMSC™ seals and MagTecta™ bearing protectors at its European plants has led to significant savings for the pet food manufacturer Nestlé Purina.

The company asked AESSEAL® to provide a solution to two persistent problems. One problem was at a meat processing plant, and was being caused by a leaking and unreliable seal on a mixer machine. The water-based barrier fluid system was unable to cope with pressure fluctuations inside the mixer, so that when the pressure in the mixer exceeded that of the barrier system, product began to penetrate the gland packing. This resulted in shaft wear and contamination of the barrier fluid system, resulting in mixer downtime and high maintenance costs.

The solution suggested by AESSEAL® was to replace the gland packing with a DMSC™ dual mechanical seal, which is resistant to temperature and pressure fluctuations.

Just ten months after its installation, the DMSC™ seal was working continuously maintenance-free, and had saved the company more than £182,000, with payback achieved in just three months. The company also estimated that it would save an additional £200,000 per line per year as a result of increased mixer uptime.

These savings, resulting from the performance and reliability of the AESSEAL® DMSC™ seal, led to the decision by Nestlé Purina to install them in its plants across Europe.



‘DMSC™ saves additional £200,000 per line per year’

Industry:	Food & Beverage
Product:	DMSC dual mechanical seal
MTBF Increase:	700% (and counting)
Savings:	£182,572
Reference N.O:	CH01420



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The second problem which AESSEAL® was asked to solve was how to remedy the persistent leakage from the lip seals on the rotary valves in the product packaging line at Nestlé Purina's plant in Poland. This was causing damage to the valve housing and shaft sleeve, with the result that the seals needed to be replaced every four weeks. This process took around 33 hours, with the parts alone costing £68,000 a year per line.

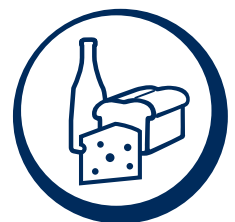
AESSEAL® recommended replacing the lip seals with MagTecta™ bearing protectors, which use mechanical seal technology to prevent leakage. The product's non-contacting design also prevents wear on the shaft or housing. The result was an immediate improvement in the mean time between failure (MTBF) to three months. Subsequent upgrades to the bearings and housing sleeves have increased this to six months.

The success of the MagTecta™ at its facility in Poland led Nestlé Purina to implement similar upgrades at its plants in Hungary, Russia, France and the UK.



'MagTecta saves over £40,000 a year per line'

Industry:	Food & Beverage
Product:	MagTecta
MTBF Increase:	500%
Savings:	£43,300 per year per line
Reference N.O:	CH01420



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