



ENVIRONMENTAL TECHNOLOGY

Reduced downtime and health & safety benefits

Cargill Corn Milling Inc was concerned about reduced operational efficiency, the risk of contamination and workforce safety due to ongoing leakage from a fibre press at its Nebraska plant.

The machine was sealed using an air purge seal and packing, which were highly inefficient. Loss of air pressure caused the seal to leak product into the tail bearing and onto the floor.

The packing broke down frequently, requiring downtime for maintenance every two months, and the leakage eventually led to bearing failure, adding further downtime and equipment costs.

Pressure was also placed on housekeeping activity, to prevent slip hazards and remove any potential risk of bacteria growth from the spilled product.

A solution was required. However, Cargill did not wish to continue using air purge seals, and also did not want the expense of installing hanging water system tanks.



‘Six times longer than the previous’

Industry:	Food
Product:	CDSA™ with auto-lube
Application:	Fibre press
MTBF Increase:	600% (and counting)
Country:	USA
Reference N.O:	CS0017



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As the fibre press ran very slowly, rotating at just 9rpm, AESSEAL® recommended replacing the existing seals and packing with a CDSA™ seal, and using an auto-lube to inject food grade grease between the seal faces in place of water.

Three seals were installed and have run without any problems for more than a year - six times longer than the previous sealing arrangement and an increase in meantime between failure (MTBF) of 600%.

Cargill Corn Milling saved on maintenance and equipment costs and were so impressed with the outcome the company decided to extend the AESSEAL® sealing solution to other fibre presses and similar equipment in multiple plant locations.



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