

DualPac[®] 2212 Solves Sugar Mill Sealing Issues

Food Industry – Sugar Mill Chesterton DualPac® 2212 Case Study 040 Rotating Equipment

Challenge

Issue

A sugar mill was trying to seal heavy slurry (63% solids) in multiple centrifugal pumps. The pump packing in use lasted an average of only three weeks. The plant considered the impact on these applications as a major reliability issue.

Root Cause

Packing was deforming under pressure and unable to control leakage.

Goal

Increase the packing life to five weeks to support the existing plant cycle.

Solution

Overview

- Chesterton DualPac 2212 packing was installed in two pumps side by side. Each pump required five rings of packing installed as shown below.
- Chesterton DualPac Technology allows the combination of two unique materials to take advantage of the best properties of each.
 DualPac 2212 combines an inner burnresistant material with a highly resilient outer fiber, resulting in a packing that expands easily under gland load and achieves a reliable and quick break-in period.

Results

Client Reported

DualPac 2212 lasted twice the life of the competitor's packing. Customer's expectations were exceeded.

ROI

Labor cost = \$10/hour

Downtime cost = \$50/hour

Packing cost savings = \$4,751

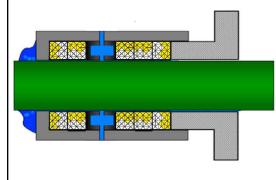
Downtime cost savings = \$1,600

Labor cost savings = \$320

Total Savings = \$6,671 per year



Sugar cane field.



Packing installation configuration.



Pumps where packing was installed.

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

A.W. Chesterton Company disclaims all warranties expressed or implied, including warranties of merchantability and fitness for a particular purpose. Liability, if any, is limited to product replacement only. Any images contained herein are for general illustrative or aesthetic purposes only and are not intended to convey any instructional, safety, handling or usage information or advice respecting any product or equipment. Please refer to relevant Safety Data Sheets, and/or Product Labels for safe use, storage, handling, and disposal of products, or consult with your local Chesterton sales representative.

A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA © 2019 A.W. Chesterton Company

® Registered trademark owned by A.W. Chesterton Company

in USA and other countries, unless otherwise noted. $\ensuremath{\mathsf{CHESTERTON.COM}}$