

Challenge

Issue

A gold mine sealing a cyanide pulp with 60% solids was having severe issues. The previous packing was lasting only 3-5 days and required constant adjustments. Excessive leaking product resulted in dramatic sleeve wear.

Root Cause

Existing packing was consolidating and wearing causing loss of compression, allowing product leakage which in turn, caused sleeve damage.

Goal

Achieve 14 days of continuous service.

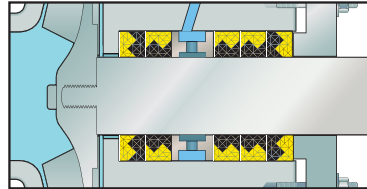


Pump leaked excessively.

Solution

Overview

- Installed four rings of **DualPac® 2211 Packing** in 4 pumps as follows.



- DualPac 2211 Packing** is ideal for this application since it uses a proprietary braiding technology to combine aramid and ePTFE in a way that will resist solids abrasion while achieving a tight seal with fewer adjustments.



DualPac 2211 Packing installed in the stuffing box. Note the top ring is turned to use the aramid to resist extrusion.

Results

Client Reported

- Average Mean Time Between Failure (MTBF) of packing increased to 25-35 days, and failure was often equipment related (plugged flush line, worn out metallic components)

Repair Costs/MTBF/Savings

- MTBF increased 5-11X
 - Customer saved \$798/month in packing
 - Customer saved \$1,167/month in sleeves
- | | |
|-----------------------|----------------------|
| Total savings: | \$1,965/month |
| | \$23,580/year |

\$=USD



Pump operating leak free for over 30 days, saving the customer thousands of dollars.