

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.

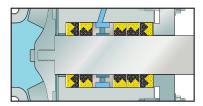
Goal

Achieve 14 days of continuous service.

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.



Pump leaked excessively.



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

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

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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
 <u>Customer saved</u> \$1,167/month in sleeves
 Total savings: \$1,965/month
 \$23,580/year

\$=USD