

Intermittent Service? Say no more, we have a SpiralTrac™ for You!

Mining | Sulfuric Acid and Manganese Slurry | Mechanical Seal



Application Info & Challenge

- Zinc mine, Worthington 2.5M 182 Slurry Pump
- Sulfuric acid and manganese slurry, 100 °F temperature, **10% solids**

This pump is running in intermittent service, and because of the abrasive nature of the product, it had to be repacked **every 4 months**. The pump was also a maintenance headache due to its hard-to-access location at the plant, a crane had to be used each time for repacking. Customer was looking to reduce the 3 gpm flush utilized at the time. **Product could not be diluted.**

Solution & Result

Chesterton S10 Cassette Seal CB/SSC installed with SpiralTrac Version C 316SS material.

The Chesterton specialist offered a SpiralTrac design that is pressed in from the impeller side. The clear unobstructed path for the spiral geometry keeps the box clean from solids. The Version C SpiralTrac has a special drain machined at the 6 o'clock position, allowing the product to easily drain from the stuffing box when the pump is turned off. This prevents product residue hardening in the box while the pump is not in operation. As a result, the S10 seal can run in a clean environment, staying cool and lubricated around the seal faces **without utilizing flush**. Since SpiralTrac directs solids away from the seal, the S10 could be configured with a soft face combination.

As of writing (Jan 2020), this solution has been running **flush free for 3+ years!** That is at least 12 times the pump didn't have to be repacked, saving the customer on material, maintenance and water costs!



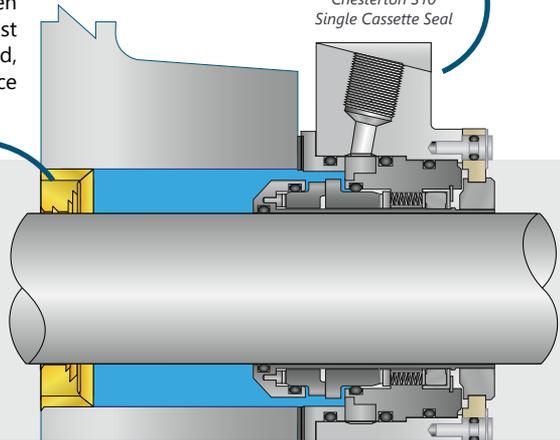
Chesterton S10 Cassette Seal installed in a Worthington Slurry Pump



Chesterton S10 Single Cassette Seal



Version C SpiralTrac™ made of 316SS



For more information please send an email to us at support@enviroseal.ca. We hope to hear from you!



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