

## Challenge

### Background

Refiners used in web fibreboard manufacturing are typically sealed through a standard stuffing box arrangement with compression packing. Due to the high speeds and the abrasive nature of the chips, this sealing arrangement often suffers from short packing life due to packing and sleeve wear. The axial motion of hydraulic plate adjustments also makes it impossible to maintain a seal long term and usually results in heavy leakage. Because of these sealing issues, the refiners in many plants are considered a maintenance headache and result in high costs.



Refiner.

## Solution

### Product

**Chesterton SuperSet** incorporates the EnviroSeal **SpiralTrac™** Environmental Controller combined with Chesterton 370 advanced carbon/graphite packing with a 3-ring arrangement.

The **SpiralTrac** replaces the lantern ring and the first two rings of packing that are the primary reason for the need for frequent adjustments. Backed up by 3 rings of **Chesterton's 370**, sleeve wear is virtually eliminated. This allows the hydraulic plate adjustments to be made without compromising the seal.

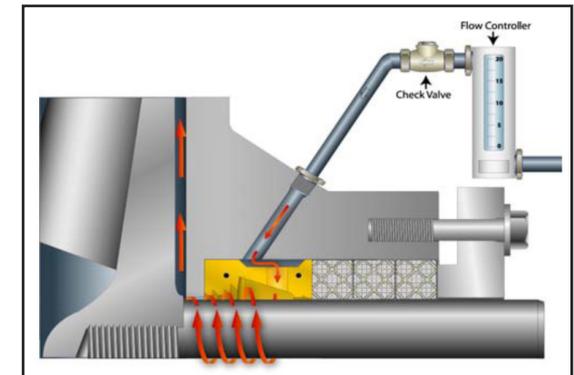


SpiralTrac Version P and Chesterton 370 packing.

## Results

The patented **SpiralTrac** design removes abrasive particulates from the stuffing box at greatly reduced flush rates, while the Chesterton 370 provides the necessary sealing.

- Reduced maintenance costs
- Reduced sleeve wear
- Easy and quick to repair
- Far fewer gland adjustments
- Up to 75% reduction in sealing water usage
- Extended mean time between repairs, exceeding 24 months



Chesterton 370 SuperSet with Flowmeter.

SpiralTrac™ is a trademark of EnviroSeal Engineering Products Limited.

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, Product 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

© A.W. Chesterton Company, 2015. All rights reserved.

® Registered trademark owned and licensed by A.W. Chesterton Company

in USA and other countries, unless otherwise noted. WWW.CHESTERTONSTATIONARY.COM