

# SuperSet™ featuring *SpiralTrac* Environmental Controller



the solids to the bottom of the stuffing box and back out into the pump casing. This ability to remove particulate from the stuffing box is what differentiates the SpiralTrac from plain restriction bushings on the market today.

The other component of the SuperSet sealing solution is Chesterton's line of high quality mechanical packings. In order to achieve maximum performance and sealability with the longest service life, the packing must have a number of features including minimal leakage capability, chemical compatibility, toughness, strength, and excellent thermal characteristics. Chesterton offers five high performance packing options in the SuperSet that cover a complete range of applications while meeting the needs and requirements of various industries (see table below).

**Dramatically reduces flush requirements- up to 90%**

**Extends packing life 2 - 6 times than that of a standard packed stuffing box**

**Prevents solids from getting between the packing and shaft**

**Minimizes erosion and wear of shaft/ sleeve**

**Typically reduces number of packing rings- 40% in typical stuffing box**

- **Less consolidation and fewer gland adjustments required**
- **Easier repacking**
- **No lantern movement**

**Decreases product loss from the stuffing box**

The SuperSet combines the superior sealing capabilities of Chesterton's Mechanical Packing products with the patented design of the EnviroSeal SpiralTrac® Version P Environmental Controller for Packed Stuffing Boxes. This total sealing solution set is specifically designed and proven to increase packing and equipment service life while dramatically reducing flush rates. The savings are real- increased reliability with lower maintenance and operating costs.

The SpiralTrac Version P actually enhances the utilization of the flow and centrifugal effects around the shaft; it performs similarly to a centrifugal separator. The built-in tangential lantern ring and helical grooving system impart motion to the flush, and the resulting centrifugal force throws the particles in the fluid to the outside of the bushing. The patented SpiralTrac grooving system then hydro-dynamically pumps

Sealing Solution	Features	Applications
1730 SuperSet	White synthetic fiber, non-staining, good leakage control with minimal gland adjustments, excellent resistance to heat.	General Service in slurries and clean fluids.
1400R SuperSet	Pure Graphite with Carbon reinforcement, excellent leakage control, capable of near zero to zero leakage, unaffected by frictional heat. Very conformable.	Virtually any application. Also suitable for use on sleeves with some wear. Good option for large, higher speed equipment.
370 SuperSet	High Strength, high purity carbon fiber with multi-stage lube system. Excellent leakage control, capable of near zero to zero leakage. High-speed capability.	Virtually any application. Particularly suited for high speed, high temperature applications.
477-1T SuperSet	PTFE coated carbon fiber. Excellent extrusion resistance, good leakage control, minimal consolidation and gland adjustments required, excellent chemical resistance.	Slow speed equipment. Originally designed for chemical digestion processes in the Pulp & Paper Industry.
1760 SuperSet	PTFE/ Graphite fiber. Excellent chemical resistance, good leakage control.	General Service and highly aggressive chemical environments. Widely used in many industries.

The SuperSet offers a unique sealing solution for any application, and it helps dramatically reduce direct and indirect costs associated with packed pumps and equipment. Use less flush water more effectively and realize cost savings- the SuperSet is the Ultimate Sealing Solution for Packing. Call your Chesterton Technical Specialist to get your SuperSet today.

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