

6800 LowE Packing Set

Control Valve Packing Set That Outperforms ISO 15848 Standard by More Than Three Times

Control and isolation valves are one of the most friction-sensitive applications to seal. These pieces of equipment can become particularly vulnerable to high packing friction, resulting in an overall decrease in system efficiencies and reduced production outputs.

Chesterton's new control valve packing fits natural gas and oil processing applications.

Chesterton® 6800 LowE Packing Set uses the design of the 5800 series packing, combining graphite's stability with PTFE's low friction. It incorporates the unique Chesterton WedgeSeal™ design with a graphite/PTFE hybrid material featuring a thermally stable base of pure graphite tape over-knitted with pure PTFE filament.

The packing set utilizes hybrid braided material against the stem's dynamic surface where friction is highest. Static sealing components incorporate Chesterton's pure graphite tape with a passive corrosion inhibitor.

The 6800 LowE Packing Set meets today's difficult sealing requirements from all state and federal regulations for low VOC and VHAP emissions.

Design Elements of the 6800 LowE Packing Set



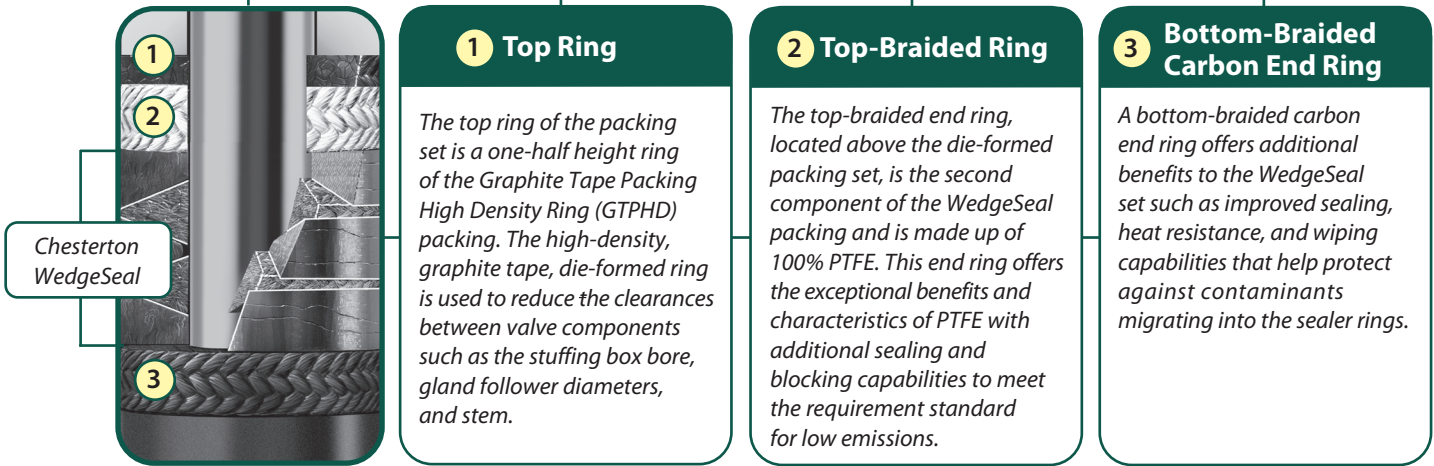
Increase your valve packing performance with Chesterton 6800 LowE Packing Set

- Designed specifically for critical control valves.
- Innovative, hybrid blend of graphite and PTFE material.
- Superior sealing and extrusion resistance.
- Very low friction and gland loads for efficient valve operation.
- User-friendly: easy to install, and maintain.

6800 LowE Packing Set Technology advantages

- Unique Chesterton WedgeSeal design.
- No gland adjustments compared to traditional packing sets.
- For service temperatures below 316°C (600°F).
- Low gland loads <4,700 psi resulting in low friction values.
- Passes ISO 15848-1AM-CC3 test.
- API-622 third edition
- API-607

The Chesterton® 6800 LowE Packing Set Design Element Incorporates Three Key Features of the Seal



1 Top Ring

The top ring of the packing set is a one-half height ring of the Graphite Tape Packing High Density Ring (GTPHD) packing. The high-density, graphite tape, die-formed ring is used to reduce the clearances between valve components such as the stuffing box bore, gland follower diameters, and stem.

2 Top-Braided Ring

The top-braided end ring, located above the die-formed packing set, is the second component of the WedgeSeal packing and is made up of 100% PTFE. This end ring offers the exceptional benefits and characteristics of PTFE with additional sealing and blocking capabilities to meet the requirement standard for low emissions.

3 Bottom-Braided Carbon End Ring

A bottom-braided carbon end ring offers additional benefits to the WedgeSeal set such as improved sealing, heat resistance, and wiping capabilities that help protect against contaminants migrating into the sealer rings.

Technical Data

Test Parameters	125 bar g (1815 psig) in emission service such as VOCs
Pressure Limit	276 bar g (4000 psig) in conventional applications such as steam
Temperature Limit	-40°C – 316°C (-40°F – 600°F)
Chemical Resistance	pH 0 – 13 except for molten alkali metals, elemental fluorine and strong oxidizers*
Size	Consult your local Chesterton representative for a list of available sizes
Sample Item	6800 LowE Packing Set: #435137 without bushing 6800 LowE Packing Set: #435136 with bushing

Applications

For use in control and isolation valves servicing demanding activities of natural gas processing, oil and gas production processing, as well as storage and transportation. Live-loading is recommended for most all applications.**

Chesterton LowE Warranty

The 6800 LowE Packing Set—warranty to seal less than 100 ppm for 5 years per API Method 21.***

6800 LowE Packing Set Key Features

- **Unique WedgeSeal design**
Benefit of low friction and increased sealability
- **Innovative blend of high-temperature graphite and PTFE yarn**
Allows for stable temperature control and superior sealing performance.
- **Engineered packing set**
Each component is designed with a specific sealing objective.
- **When testing this packing set there where no gland adjustments for over 300,000 cycles. It went approx close, to 350,000 cycles.**

* Consult Chesterton MP Application Engineering for concerns on compatibility.

** Test results packing set was live-loaded.

*** Subject to proper installation and operation in accordance with Chesterton's Conditions of Warranty.

Chesterton ISO certificates available on chesterton.com/corporate/iso

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