

3500

VALVELON®

Description

Chesterton® 3500 Valvelon® is a dense, pure PTFE sealant that can be used as a non-hardening valve packing or flange gasket. The unique construction of the product allows it to squeeze in all directions to fill voids and conform to surfaces when installed in a valve or flange. It will not extrude under pressures of up to 35 kg/cm² due to its multi-layered structure.

Chesterton 3500 Valvelon is ready to use as received. Simply unwind and cut just enough for a particular application. Users can reduce expensive gasket and packing inventories by stocking this one convenient product.

Because it contains no surface lubricants or chemical fillers, the product has an unlimited shelf life.

The product can withstand a wide range of temperatures and be utilized with virtually all chemicals.

It is non-hardening in service, and will remain permanently pliable.

Typical Physical Properties

Form	Solid Interwoven PTFE
Color	White
Temperature Range	-240°C to 260°C

Composition

Chesterton 3500 Valvelon is composed of 100% PTFE. No fillers or diluents are added. Its superior chemical resistance and thermal properties are due to the inertness of the polytetrafluoroethylene that make up this product.

What makes 3500 Valvelon so unique and gives it superior and versatile functionality is its multi-layered construction. Although it has the cold flow characteristics of PTFE and can conform to surfaces to seal, the multi-layered construction gives it very high tensile strength.

This means 3500 Valvelon will not extrude even under pressures as high as 35 kg/cm².

Chesterton 3500 Valvelon is inert and contains no graphite or metallic lubricants. It will therefore not cause pitting or galvanic corrosion like other sealants that are commonly used. It is non-reactive with virtually all chemicals and can withstand a pH from 0 to 14.

The pure PTFE in 3500 Valvelon is nontoxic and non-contaminating. Because this polymer is inherently a good lubricant, there are no additional surface lubricants used in the product which could wash out in fluid systems. Simply apply the product to valves and tighten.

Applications

Use as a permanent packing for small valves and as a gasketing material to seal flange faces. Chesterton® 3500 Valvelon® can be used with steam, salt water, air, refrigerants, sulfuric acid, hydrochloric acid, nitric acid, chromic acid, sodium hydroxide, potassium hydroxide, kerosene, gasoline, perchloroethylene, hydrogen, ammonia, fluorinated solvents, chlorine, propane, butane, nitrogen and generally all substances within a pH range of 0 to 14. Do not use with liquid or gaseous oxygen, molten alkali metals and some rare halogenated compounds.

Features

- Non-hardening
- 100% PTFE
- Nontoxic
- Unlimited shelf life
- Reduces packing and gaskets inventory
- Chemically inert
- Wide temperature range
- Conforms to surface shapes
- High tensile strength
- NSF P1 - Registration number 134013

Directions

Valve Stems:

Remove old packing.
Clean off loose material from the stem.
Wrap 3500 Valvelon around the stem to fill the stuffing box. Tighten down the follower nut. If the nut or packing gland bottoms out, back the nut off, add another wrap of 3500 Valvelon and retighten. In general, any size 3500 Valvelon may be used. However, it is easier to work with the 5,6 mm size when the stuffing box space is 30 mm or larger. Not recommended in valves if the pressure in the equipment exceeds 35 kg/cm²

Flange Faces:

Remove old gasket. Clean off any gasket residues on the flange face. Using a single strand of 3500 Valvelon, form a loop around the surface to be sealed. Wrap around each bolt, overlapping the ends. Recommended for applications up to 35 kg/cm².

Safety

Before using this product, please refer to the Material Safety Data Sheet (MSDS) or appropriate safety sheet for your area.

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860 Salem Street
Groveland, Massachusetts 01834 USA
Tel: (781) 438-7000 • FAX: (978) 469-6528
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