

# 800 GoldEnd® Tape Stops Leakage on Oxygen Gas Cylinders

## Challenge

### Background

Medical-grade oxygen gas is explosive and very hazardous. Gas cylinders are typically sealed with a pure PTFE tape that is wrapped 5 – 8 times around the threads. Yet, the applied tape often shreds and tears, which results in leaks and requires special procedures to repair the leaking joint.



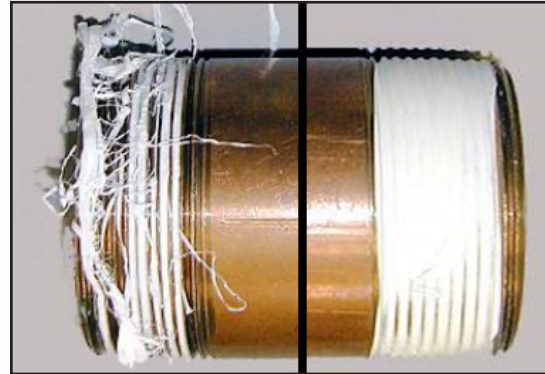
Cylinders handling oxygen at gas distribution center.

## Solution

### Product

**Chesterton 800 GoldEnd® Tape** is pure PTFE, ultra-high density, and meets Air Liquide (France) and BAM (German) certification for oxygen-safe sealing.

**800 GoldEnd Tape** typically only requires 1.5 – 2.5 wraps to get a leak-free seal.



800 GoldEnd Tape was chosen for its ability to resist tearing and shredding.

## Results

### Gas Joint Seal Improvements

Due to the length and width of the fitting, 0.75 inch wide **800 GoldEnd Tape** was used to seal the joint. The depth of the “gas tight” threads required 2.5 wraps to properly fill the threads. Due to the ultra-high density of **800 GoldEnd Tape**, 1 spool of 0.75 X 540 inches was sufficient to seal 50 gas cylinder valves compared to the 4 – 5 spools required of a typical PTFE tape. After sealing the cylinders, no leaks were observed over the period of operation.



800 GoldEnd Tape has been recognized as an industry standard for oxygen thread sealing.