

Replace PTFE Tape with Oxygen-Safe Formula-8

Formula-8 is an oxygen-safe thread sealant engineered to eliminate the frustrations of tape and provide a long-lasting seal in the most demanding applications.

LEWISTON, MN, UNITED STATES, April 3, 2025 /EINPresswire.com/ -- [Fluoramics](https://www.fluoramics.com), a leader in industrial sealing solutions, reaffirms the industry's trust in [Formula-8 Thread Sealant](https://www.fluoramics.com), a time-tested alternative to traditional thread-sealing tape. Originally introduced in 1967, Formula-8 continues to be the go-to solution for industries requiring reliable, leak-proof connections in high-performance environments.



The Innovation Behind Formula-8

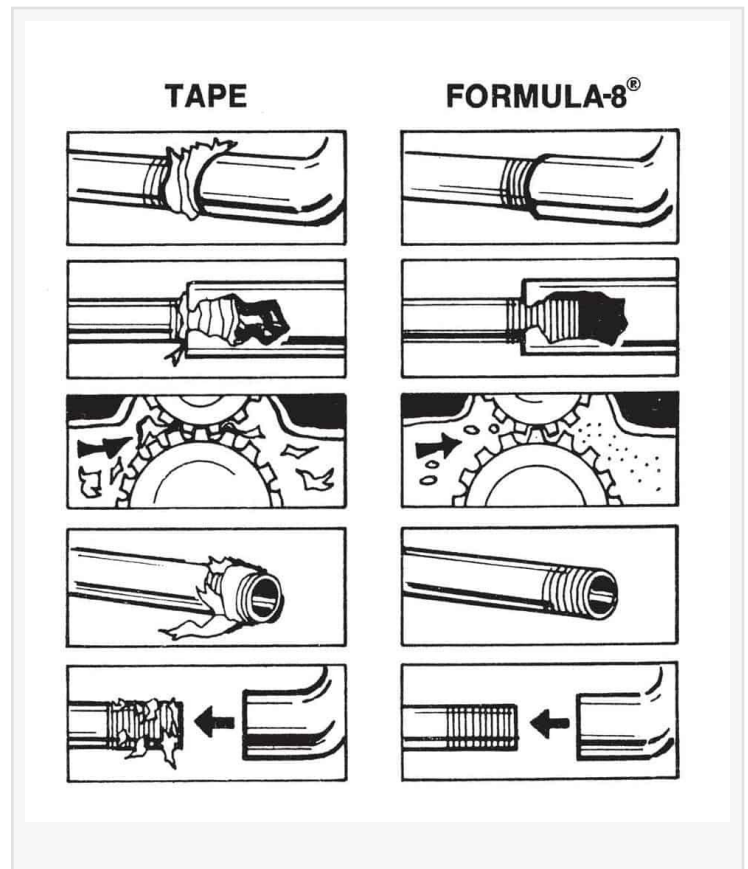
Professionals in aerospace, cryogenics, medical, and industrial applications have long faced challenges with standard thread tape, including shredding, leaks, and failure under extreme conditions. Formula-8 Thread Sealant was engineered to solve these issues by providing a non-hardening, oxygen-safe, and thixotropic paste that creates a secure, long-lasting seal without the drawbacks of tape.

Unlike thread tape, which can deteriorate and migrate over time, Formula-8 shears into strings during application, physically packing threads as connections are torqued down. This ensures a uniform, leak-proof seal that withstands extreme temperatures (-400°F to +500°F), high pressures, and vibration-heavy environments.

Why Formula-8 Outperforms Thread Tape

Formula-8 was developed as an alternative to thread-sealing tape, specifically to address common failure points in industrial sealing. Here's why it stands out:

- No Shredding or Tape Residue - Unlike thread tape, which can break down and clog valves, pumps, and orifices, Formula-8 stays intact, preventing contamination.
- Seals the Entire Thread Length - Provides a consistent, full-coverage seal that won't loosen or migrate, even in high-vibration environments.
- Stable in Extreme Temperatures - Withstands -400°F to +500°F, making it ideal for cryogenics, high-temperature piping, and aerospace applications.
- No Cold Flow or Hardening Over Time - Formula-8 maintains its consistency, unlike tape, which can stretch, cold-flow, or dry out over time.
- Easy Application & Reusability - Applies as a smooth cream that stays in place, even in hard-to-reach areas. Breaking and remaking joints is simple — add more Formula-8 over the existing seal.



“

Formula-8 was engineered to solve the frustrations of thread tape—no shredding, no leaks, just a durable, oxygen-safe seal that stands the test of time.”

*Gregg Reick, Fluoramics’
President and Chief Chemical
Engineer*

Certified and Trusted Across Critical Industries

Fluoramics’ Formula-8 is certified for use in both gaseous and liquid oxygen applications, making it a trusted sealing solution for:

- Cryogenics - Performs in ultra-low temperatures, sealing liquid nitrogen, helium, and oxygen systems.
- Oxygen Systems - A certified oxygen-safe thread sealant that prevents leaks without combustion risk.
- High-Vacuum Applications - Used in aerospace, medical devices, and industrial research labs.

- Industrial and Chemical Piping - Resists solvents, acids, fuels, and high-pressure gases, ensuring long-term reliability.
- Medical and Food Processing Equipment - Non-toxic and safe for use in high-purity environments.

If You Need to Use Tape

While Formula-8 was designed to replace thread tape, there are situations where tape is still necessary. Fluoramics suggests using full-density thread seal tape on threaded joints 3/4" or larger. For those applications, Fluoramics offers [LOX-8 Full Density Thread Seal Tape](#), an alternative to standard tapes. Unlike traditional thread tape, which is often thin and prone to shredding, LOX-8 Tape is full density, providing a stronger, more reliable seal with better resistance to stretching and cold flow.

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