

Halar[®]



SOLVAY

asking more from chemistry[®]



Halar[®] ECTFE
Anti-Corrosion Coatings & Linings

**SPECIALTY
POLYMERS**

The Best Choice for Over 35 Years

Halar® ECTFE powder coatings and linings have been used since 1975 as the ideal corrosion protection material in a wide variety of industries. Halar® ECTFE has a unique combination of properties that delivers long-lasting performance and includes:

- Excellent chemical resistance (pH 1 – 14)
- Outstanding permeation resistance
- Very good surface properties
- Service temperature from cryogenic up to 150 °C
- Very good adhesion to substrate

Halar® ECTFE is Well-Suited for the Following:

- When the part will be used for handling strong acids and strong bases at elevated temperatures
- Where other plastics (Epoxy, Polyamide, PP, PVC, etc.) cannot resist
- Where corrosion-resistant metals would be attacked or be too expensive
- Where a glass lining cannot be used due to chemical resistance failure or poor reliability (unexpected cracks)



Serving the Most Demanding Industries

Industries such as chemical processing, pulp and paper, pharmaceutical, power industry, food processing and semiconductor, get the best corrosion protection when coating fundamental parts such as:

- Pumps & valves
- Centrifuge machines
- Filters
- Vacuum dryers
- Vessels/tanks
- Pipelines/flanges/manholes
- Sensors & devices

Surface Properties

Halar® ECTFE coatings and linings demonstrate toughness, hardness, good flexibility, excellent impact properties and good scratch and abrasion resistance, thanks to a hardness of Shore D 75.

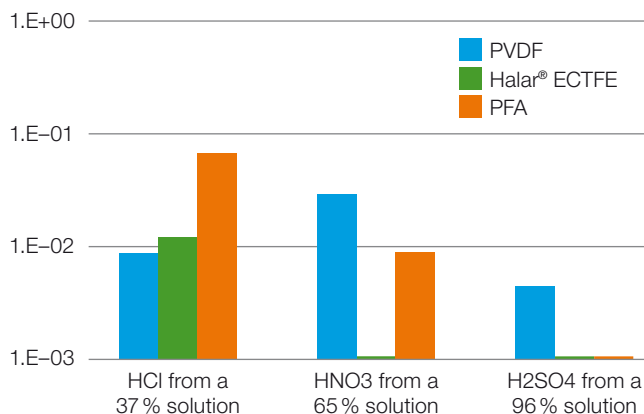
Halar® ECTFE coatings and linings are distinguished from other fluoropolymer-based coatings but their exceptional surface smoothness, which inhibits buildup and accumulation of particles and metallic salts and reduces the formation of biorganic films and bacterial colonies.

Permeation Resistance

Permeation resistance is extremely important for the coating's long-term performance. Even if the coating material is not affected by direct contact with chemical substances, permeation through the coating can lead to metal substrate corrosion, with subsequent service failure.

Halar® ECTFE coatings show very low permeability to oxygen, water vapor, carbon dioxide, chlorine gas, hydrochloric acid and various other gases, which makes it a good choice for corrosion protection in the harshest environments.

Halar® ECTFE permeation resistance



Purity

Halar® ECTFE powder coatings and linings offer high-purity coatings that are suitable for applications in the semiconductor, biotech, and pharmaceutical industries.

- Static soak tests in ultra-pure water and high-purity chemicals show extremely low levels of metallic and organic extractables
- Dynamic rinse data validates Halar® ECTFE as suitable for high purity systems
- Halar® ECTFE has very low fluoride ion leach-out

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