



Proven Ultra-Pure Chemical Containment Systems that stand the test of time.

Since 1984, Electro Chemical has been providing fluoropolymer lined fluid handling systems that ensure the integrity of ultra-pure chemicals from the point of manufacture to the point of use.

Many of our original systems are still in use today, meeting stringent p.p.t. purity requirements that could only have been imagined at the time they were initially commissioned.

Through the process of continuous improvement, our goal is to make the ultra-pure fluid handling systems we build today capable of meeting industry needs over several generations of technological innovation into the future.

Product Applications

- Tank Trailers
- ISO Containers
- Rail Cars
- Storage Tanks
- Day Tanks

Lining Materials

- PFA
- PTFE-M
- PVDF
- FEP
- E-CTFE
- ETFE



Electro Chemical Sheet Lining Systems

The Industry Standard for Ultra-High Purity Fluid Containment Since 1984

Lining Materials

COMMON INDUSTRY NAME	FULL CHEMICAL NAME	STANDARD LINING THICKNESSES
PFA	Perfluoroalkoxy Copolymer	1.5 mm (60 mil), 2.3 mm (90 mil), 2.8 mm (110 mil)
PTFE-M	Modified Polytetrafluoroethylene	2.5 mm (98 mil), 3.2 mm (125 mil)
PVDF	Polyvinylidene Fluoride Copolymer	1.5 mm (60 mil), 2.3 mm (90 mil), 3.0 mm (118 mil)
FEP	Fluorinated Ethylene Propylene Copolymer	1.5 mm (60 mil), 2.3 mm (90 mil)
E-CTFE	Ethylene Chlorotrifluoroethylene Copolymer	1.5 mm (60 mil), 2.3 mm (90 mil)
ETFE	Ethylene Tetrafluoroethylene Copolymer	1.5 mm (60 mil), 2.3 mm (90 mil)

Ultra-High Purity Transport Vessels and Containers

CONTAINER TYPE	STANDARD CAPACITY RANGES
Rail Car	50,000 – 80,000 liters (13,000 – 21,000 gallons)
Tank Trailer	13,000 – 23,000 liters (3,500 – 6,000 gallons)
Iso-Container	10,000 – 20,000 liters (2,650 – 5,300 gallons)
Day Tank	455 – 2,270 liters (120 – 600 gallons)
Stationary Tank	750 – 190,000 liters (200 – 45,000 gallons)

Electro Chemical lining systems meet all ISO, IMO, US DOT, and ASME Standards for transport and storage of bulk chemicals. We can provide turnkey lining systems, providing both the container and the lining system as a one-stop supplier, or we can install our ultra-high purity lining systems in steel vessels provided by others. To best ensure a durable lining system that will stand the test of time, all steel preparation of vessels provided by others must be performed in strict accordance with Electro Technical Bulletin No. 1, available for free download from our web site at www.electrochemical.net, or by request from our office.

Our lining systems ensure maintenance of ultra-high purity chemical integrity from the point of manufacture to the point of use. We have been installing ultra-high purity lining systems in bulk chemical transport vessels since 1984, and have several hundred currently in service. By globally sourcing all of our lining materials, we provide our customers with the highest performing lining systems available anywhere to meet their ever increasing demands for higher product purity.