

Fluoropolymer Lined Components



Why consider fluoropolymer lined equipment?

Fluoropolymers offer superior chemical resistance, thermal stability, high purity, non-bonding surfaces, and thermal and electrical insulation. When used with metal and rigid structural materials, fluoropolymers provide a cost-effective alternative to glass-lined and exotic metal construction. Our experience with corrosion-resistant materials allows for engineered solutions to your most difficult application challenges. We offer a complete array of fluoropolymers and processing techniques specific to your given fluid properties, design temperature, design pressure, shape, and dimensional criteria.



Fluoropolymer Lined Components include:

Reactors • Tanks • Columns • Covers • Vessels
Heat Exchanger Components • Scrubbing Towers
Trays • Bubble Caps • Dip Pipes



Proven Materials of Choice

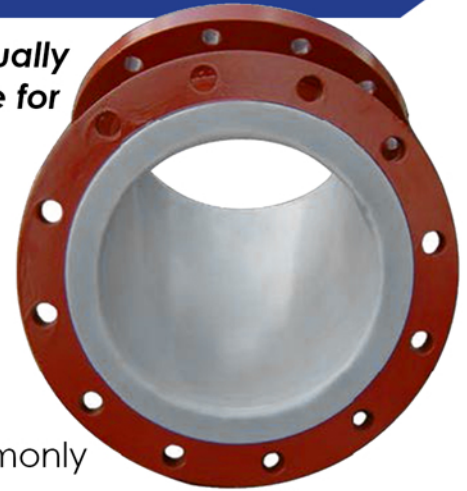
Fluoropolymers, known for their exceptional resistance to virtually all chemicals and solvents, have become the industry choice for handling harsh processing environments. As a result, lined components are routinely used to enhance plant productivity and longevity.

PFA - excellent corrosion resistance, ideal for high-purity applications, lower permeability rate than PTFE, can be transfer molded, can be rotolined for vacuum applications

PTFE, TFM, FEP - cost-effective corrosion-resistant option, commonly used as sheet lining in positive pressure applications

EFTE, ECTFE, PVDF - abrasion resistant, cost-effective option for rotolining in vacuum applications up to 265°F

PP, HDPE - moderate corrosion resistance for less demanding applications



Processing Techniques

Rotolining: for structures with complicated shapes under vacuum or positive pressure conditions, with no welds or seams. Provides maximum permeation resistance and is field-repairable.

Loose Liners: for simple shaped structures with positive pressure conditions. For larger structures, components can be joined with our fluoropolymer welding system.

Bonded Liners: for structures with simple or complicated shapes and vacuum or positive pressure conditions.

Liquid and Powder Coatings: for structures with complicated shapes under vacuum or positive pressure conditions, with no welds or seams, where permeability is not a great concern.



With time-tested expertise in engineering methods and materials, we deliver the best technology tailored to your geometry, temperature, pressure, and fluid composition requirements.

