CGThermal

Ceramic. Graphite. Heat Exchangers. Process Equipment

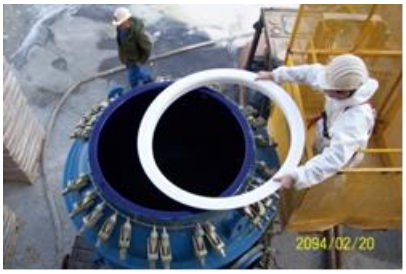
Case History

RELINING GLASS VESSELS WITH ETFE

Sulfuric Acid

This glass lined column which sees 37%-42% sulfuric acid at 125 - 145degC with full vacuum. The damaged glass lined segments were replaced by ETFE lining in 2008. Its has been performing without issue ever since.

Sulfuric Acid:



The glass lined vessel failed twice after 14 months of service operating at 145 degC and -0.5 bar g pressure due to because the corrosion of the 37%-42% sulfuric acid.

We replaced the lining with ETFE rotolining and the vessel worked years before a repair needed due to a mechanical deformation in the man hole .

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Hydrogen Bromide

A cone reducer in a connecting a column to a glass lined bottom tank in use with of Hydrogen Bromide. The glass lining was replaced with ETFE lining. It has been in service since 2007.

Mixed Acid :

A glass lined reactor that failed time after time after 3 months of service at 125 deg c with positive pressure with extreme swings in PH.

It was replaced by Fluoropolymer coating with loose lining. It has been for 9 years, and another is on order.

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