

CASE STUDY

KWO® MultiTex® Tape Chemical industry



KWO®
experts in ePTFE

PRODUCT

KWO® MultiTex® Tape 55x6 mm.

INDUSTRIAL SECTOR

Chemical.

APPLICATION

Application of KWO® MultiTex® Tape (Multidirectional) 55x6 mm between sections of a glass-lined process column used in chlorine production.

PROBLEM DEFINITION

The customer required a reliable sealing solution for the large-diameter body flange of a glass-lined process column operating in a highly corrosive environment.

The application presented several technical challenges: protection of the fragile glass-lined flange surfaces, limited allowable bolt load, large flange diameter requiring excellent gasket conformability, thermal expansion during operation, prevention of fugitive emissions and process leakage. Conventional cut gaskets proved difficult to install on such large flanges and offered limited ability to compensate for minor flange irregularities while maintaining long-term sealing performance.

SOLUTION AND RESULT

KWO® MultiTex® Tape in the dimension 55x6mm conforms perfectly to the glass-lined sealing surfaces while requiring relatively low seating stresses, helping to protect the glass lining during assembly.

APPLICATION PARAMETERS

Material: Glass Lined Steel

Operating temperature: 100° C

Operating pressure: 1 Bar

Medium: Chlorine process media

Flange form/diameter: OD 1600 mm

Sealing surface: -

Bolts: -

Torque: -

Previous seal: glass filled ptfe gasket

