

Since 1984 Insulcon started to develop high temperature flexible tube-seals for ethylene crackers, reformers, crude heaters, etc. for several multi-nationals. **Refrex® multi tube bellows** are applied now for many years in Naphtha- and Ethylene Cracking, Reforming-, and Platforming furnaces, Visbreakers, Crude heaters and all kind of process heaters. **Refrex® multi tube bellows** guarantee a durable application resulting in low maintenance costs and high energy savings. Complicated high temperature tube passings, through roofs or walls may be flexible sealed by our Refrex® Mono or Multi Tube Bellows. Based on our experience with high temperature woven fabrics, the Refrex® woven fabric types were selected as be the best materials for our multi tube bellows.

Refrex® fabric is woven out of threads made out of different rovings. The rovings are assembled out of specified number of endless Refrex® filaments with a fibre-diameter of 10-12 micron. No binders are added, only a "sizing", a temporary coating which protects the Refrex® fibers during the weave process. Refrex® 1200 and 1400 filaments and textiles are non-oxidizing, non hygroscopic, chemically stable, have a low conductivity and a good abrasion resistance

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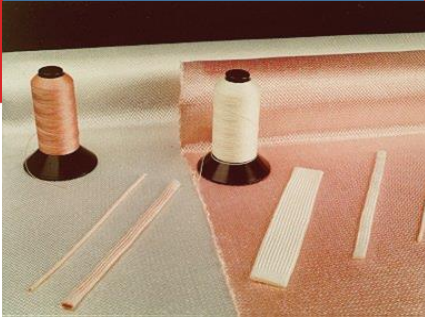
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Advantages Refrex® multi tube bellows

- Prevent cold air ingress
- Can absorb axial and lateral movements
- Decrease heat loss and therefore reduce energy costs
- Have a payback period of approximately 12 –14 months
- Are temperature resistant up to 1370°C



Refrex® 1200 and 1400 fabric types.

To assure the reliability at extreme temperatures, the corresponding Refrex® sewing yarns are used to make this a 100% Refrex® product. Fixing systems are up to the requirement of our clients and vary from endless stainless steel fixing profiles, separate (tube by tube) fixing bands and Refrex® tie-cords, fully inserted in the Refrex® fabric topside of the multi tube bellows.

If required, special designs will be made to suite the requirements of our clients. Insulcon's Wearflex® division takes care of development, engineering, production and sales for all kinds of 'flexible refractory' applications. If you would like to have supervision and/or inspection at your site as well, we will gladly be at your service. If necessary we can supply within

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