



## Refrex® Heatshields



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### General

**Refrex® heatshields** are prefabricated, customer-specific and flexible heat shields. They are specially designed to reduce excessive radiant heat on pipes and other hot parts in a furnace. A **Refrex® heatshield** is available in many forms and versions and can be used up to 1370°C.

**Refrex® heatshields** reflect around 60% of the radiation heat. This prevents overheating of tube skin surfaces of radiant coils and reformer-tubes and reduces surface temperature on other furnace internals like: tube sheets, manifolds, tube-hangers, thermocouples, etc.

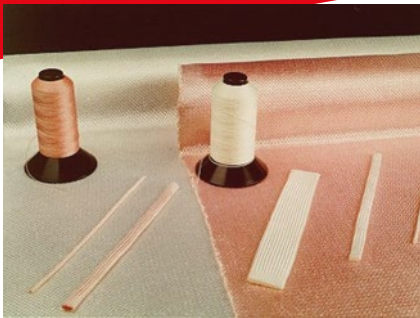
Radiant bottom and/or side wall burners radiate heat to the skin surface of furnace internals. As a result coke forming inside radiant coils and reformer tubes increases, and the ageing of the applied metals is accelerated. Based on Insulcon's worldwide experience with high temperature woven fabrics, the Refrex® woven fabric type was selected to suit specific requirements.

To assure the reliability at extreme temperature, all other materials used in the heatshields such as sewing yarn, sleeving and ceramic buttons are 100% resistant against the specified flue-gas temperature (max. 1350°C). By means of the Refrex® tie-cords, sleeveings and ceramic buttons / button holes there is a fixation achieved which can be easily and fixed again, even after years of process-firing.

[www.insulcon.com](http://www.insulcon.com) / [www.wearflex.com](http://www.wearflex.com)



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### Refrex® 1200 and 1400 fabrics

Refrex® fabric is woven out of threads made out of different rovings. The rovings are assembled out of a specified number of endless Refrex® filaments with a fiber-diameter of 10-12 micron. No binders are added only a “sizing”, a temporarily 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.

From design to delivery, from small to large sizes, from prototype to series production. The wide knowledge of high temperature resistant fabrics, our qualified people and specially developed machinery ensure that your high temperature sealing problem is solved. 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 **24-hours, 7 days a week.**

### Advantages Refrex® heatshields:

- Prevent ageing acceleration of the tube skin surface of furnace internals
- Decreases coke-forming in radiant coils and reformer tubes
- Are easy to install and de-install
- Are temperature resistant up to 1370°C

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