

## Technical Information

IS11

Performance Coatings

**PTCR ETH pre-fired**  
(1100–1150 °C)

**PTCR STH pre-fired**  
(1180–1220 °C)

### Product description

Applying a fast and single firing cycle is the state of the art in the tiles industry. The heating profiles are mainly universal and can vary between 1100–1150°C or 1180–1220°C depending on the type of tile (low- or high temperature tile). The companies are looking for a simple and cost-effective tool instead of the expensive data-logger system to measure peak temperature in their kilns. Vibrantz has customized the STH- and the ETH PTCRs to accurately measure peak temperatures and control the firing cycle in tile applications. This user-friendly, low-cost tool allows customers to have better control over their thermal process to achieve desired properties and can also assist them to increase the production yield.

Typical firing cycle for the use of ETH pre-fired:  
**top temperature 1100–1150 °C, cycle time 60–90 min.**



Typical firing cycle for the use of STH pre-fired:  
**top temperature 1150–1220 °C, cycle time 60–90 min.**

The STH pre-fired and the ETH pre-fired are ready to use for application in vacuum or other different atmospheres including air, oxygen, nitrogen, hydrogen and argon.

### Applications

- Fast firing cycles in the tiles industry
- Special firing in vacuum or other different atmospheres including air, oxygen, nitrogen, hydrogen and argon.

## Specifications

The ETH pre-fired and the STH pre-fired are ready to use rings for the fast firing process and need no further debinding step before the usage.

This product is available in a thickness of 7 mm.

Packaging size 1 box with 600 rings.

The temperature table provided for each batch is specific and adapted to firing cycle of 1 hour.



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