Technical Information

IS10

Performance Coatings

PTCR ZTH_fired 560-660°C (7 mm)

Product description

ZTH_fired, the most recent member of process temperature control rings (PTCRs) developed by Vibrantz, is the only product in the market, which can precisely measure temperatures below 660°C. This user-friendly, low-cost tool allows customers to have better control on their thermal processes to achieve desired properties and can also assist them to increase production yield.

ZTH_fired is applicable for batch- and continuous kilns with different atmospheres including air, oxygen, nitrogen, hydrogen, argon and vacuum. The ZTH_fired rings are organic-free. Therefore, they are ready to use in non-oxidizing atmospheres.

ZTH_PF like other PTCR references consists of environmentally friendly components and has no negative effect on atmosphere of furnace.

Applications

- Electronic industries like ULTCCs, semiconductors, ...
- Glass and ceramic industries like special sealing glass, decoration of glass & porcelain ...
- Container industry where fast firing cycle applied
- Controlling glass annealing ovens

Specifications

ZTH_fired measures exactly the peak temperature of fast- and slow firing thermal processes over a temperature range of 560-660°C with a wide range of soaking times; from 5 min up to 120 min.

The temperature table provided for each ZTH_fired batch is specific, and it is valid for 1 h soaking time at peak temperature.

Vibrantz provides an accurate temperature correction graph for other soaking times. The rings are very sensitive to any change in time and temperature so that their shrinkage starts at soaking times even less than 5 min. Soaking time more than 120 min is not recommended.