

测温环报价 窑炉专用测温环

产品名称	测温环报价 窑炉专用测温环
公司名称	宏富信精密科技（北京）有限公司
价格	7.50/pcs
规格参数	ferro:ptcr
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产品详情

PTCR in practice: accuracy and convenience
Firing process optimization
In the process of establishing a standard, the firing process is characterized by 'mapping' the ring temperatures of PTCR rings distributed throughout the kiln. This allows the 'hot' and 'cold spots' to be detected and defined. Using the heat treatment mapping, the firing process can then be optimized by offsetting heat sources or thermocouples as indicated by the variations in ring temperatures. As a rule of thumb, one degree of ring temperature corresponds to one degree Celsius. The exact relationship between ring temperature and degrees Celsius is of course dependent upon the specific firing cycle of the kiln. The adjoining illustration shows two heat treatment mappings of the same 15m³ kiln. The first was generated before using the PTCR; the second, after firing process optimization using PTCR rings, resulting in substantial yield improvement.

Firing process control
In the course of time - as a result of aging of the heating elements or frequently alternating firing cycles - 'hot' and 'cold spots' may gradually return to the kiln. The PTCR can help here, too. Once the firing process has been optimized, PTCR rings can be used regularly to monitor the firing process and to detect these deviations as they gradually arise, before they affect product quality. By comparing the current ring temperatures against the defined standard, the number of degrees of ring temperature by which the firing process must be adjusted can be determined. Using several rings at critical locations in the kiln ensures that an even heat distribution is maintained. Quality control at lower cost
Besides the benefits of yield improvement through optimization of the firing process, the PTCR can also help reduce production costs. Simple comparison of ring temperature against a quality standard indicates whether the products are sintered to specification. Expensive, time-consuming conventional quality checks - destruction testing, geometry, density and porosity tests - can be reduced or eliminated.