

- HEATING
- INSULATION
- MEASURING
- FIRING & MELTING



DIN EN ISO 9001
Zertifikat Nr. 71 100 G 016

M.E.SCHUPP® -PTCR®
Precise Temperature Control Rings
from 660°C up to 1,750°C

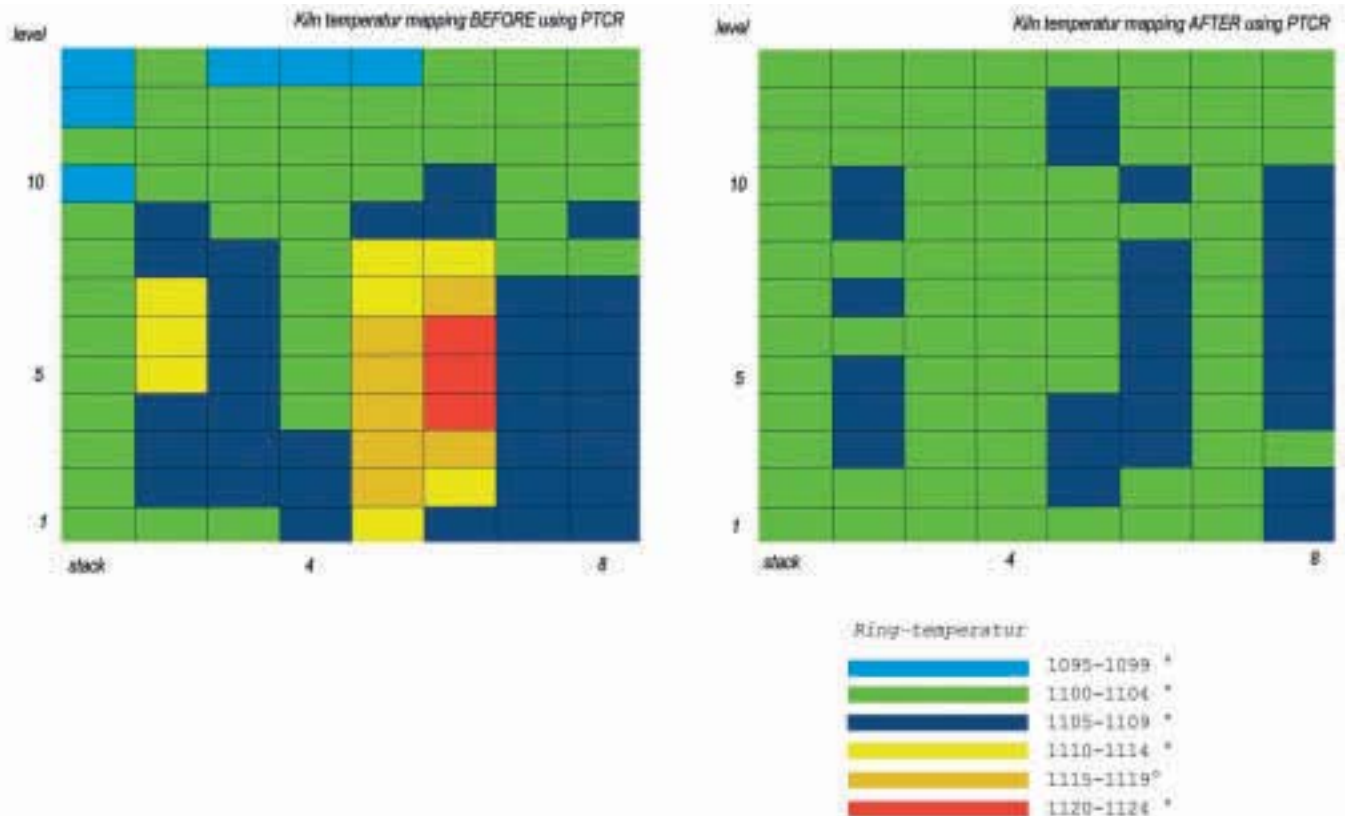
gedrb_XL_0400

Firing process optimisation

In the process of establishing a standard, the firing process is characterized by mapping the ring temperatures of PTCR 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 optimised 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.



M.E.SCHUPP Industriekeramik GmbH & Co. KG
Neuhausstr. 4-10 • 52078 Aachen
Tel.: +49 (0)241-93677-0 • Fax: +49 (0)241-93677-15
info@schupp-ceramics.com • www.schupp-ceramics.com

M.E.SCHUPP®
WWW.SCHUPP-CERAMICS.COM
HIGH TEMPERATURE TECHNOLOGY