



PTCR - PROCESS TEMPERATURE CONTROL RINGS - COMPREHENSIVE DATA SHEET

The key to high quality products through improved, reliable firing control

The PTCR - Process Temperature Control Ring is a ceramic product that registers the actual heat treatment in kilns through contraction of its diameter. The PTCR takes account of both radiation and transfer heat as well as of the effects of temperature over time. It indicates the accumulated total heat treatment in a practical, single number: Ring Temperature (RT).

PTCR STH / STL

A PRODUCT INFORMATION

Complete type nomenclature Product identification Ring colour as supplied Temperature tables	PTCR STH 1130–1340°C / 2066–2444°F PTCR STL 1130–1340°C / 2066–2444°F STH / STL - code impressed in each ring Green Batch-specific tables are included in each SPQ*-box. * SPQ = Standard Packing Quantity
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B APPLICATION INFORMATION

Applicable Temperature Range (ATR) Recommended Temperature Range (RTR) Applicable in atmospheres including Applicable in kilns including Substrate	1130–1340°C (2066–2444°F) 1200–1340°C (2192–2444°F) Air, oxygen, nitrogen*, hydrogen*, argon*, vacuum* Batch and continuous kilns Fine Alumina powder * before application, the rings must be pre-fired under oxidizing atmosphere. Heat treatment program available at vibrantz
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C AVAILABLE VERSIONS

PTCR STH PTCR STL	Dimensions: diameter 20 mm; height 7 mm Dimensions: diameter 20 mm; height 3.5 mm
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D QUALITY INFORMATION

Applicable quality standards Accuracy guarantee (68%) Batch identification	ISO 9001 RTR ± 1,5 °RT Batch number is impressed in each ring
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E ENVIRONMENTAL INFORMATION

Main chemical ingredients	Silicates and various dopes (not for internal use)
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F PACKING INFORMATION

PTCR STH Standard Packing Quantity	1 box of 600 PTCR: 40 Sleeves with 15 PTCR each
PTCR STH Minimum Order Quantity	1 box of 600 PTCR: 1 SPQ-box with 600 PTCR
PTCR STL Standard Packing Quantity	1 box of 1200 PTCR: 40 Sleeves with 30 PTCR each
PTCR STL Minimum Order Quantity	1 box of 1200 PTCR: 1 SPQ-box with 1200 PTCR

G COMPLETE RANGE OF PTCR RINGS AND PTCR MICROMETERS

PTCR ZTH 560–660°C (1040–1220°F) PTCR UTH 660–900°C (1220–1652°F) PTCR ATH 600–850°C (1112–1562°F) PTCR ETH, ETL 850–1100°C (1562–2012°F) PTCR LTH, LTL 970–1250°C (1778–2282°F) PTCR STH, STL 1130–1340°C (2066–2444°F) PTCR MTH, MTL 1340–1520°C (2444–2768°F) PTCR HTH, HTL 1450–1750°C (2642–3182°F)	PTCR Micrometer-D with digital read-out
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