

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 HTH / HTL

A PRODUCT INFORMATION	
Complete type nomenclature Product identification Ring colour as supplied Temperature tables	PTCR HTH 1450–1750°C / 2642–3182°F PTCR HTL 1450–1750°C / 2642–3182°F HTH / HTL - code impressed in each ring White Batch-specific tables are included in each SPQ*-box. * SPQ = Standard Packing Quantity
B APPLICATION INFORMATION	
Applicable Temperature Range (ATR) Recommended Temperature Range (RTR) Applicable in atmospheres including Applicable in kilns including Substrate	1450–1750°C(2642–3182°F) 1450–1750°C(2642–3182°F) Air, oxygen, nitrogen, hydrogen, argon, vacuum Batch and continuous kilns Fine Alumina powder
C AVAILABLE VERSIONS	
PTCR HTH PTCR HTL PTCR HTH / HTL	Dimensions: diameter 20 mm; height 7 mm Dimensions: diameter 20 mm; height 3.5 mm Standard pre-fired
D QUALITY INFORMATION	
Applicable quality standards Accuracy guarantee (68%) Batch identification	ISO 9001 ATR/RTR ± 3,5 °RT Batch number is impressed in each ring
E ENVIRONMENTAL INFORMATION	
Main chemical ingredients	Aluminium oxyde and various dopes (not for internal use)
F PACKING INFORMATION	
PTCR HTH Standard Packing Quantity PTCR HTH Minimum Order Quantity PTCR HTL Standard Packing Quantity PTCR HTL Minimum Order Quantity	1 box of 600 PTCR: 40 Sleeves with 15 PTCR each 1 box of 600 PTCR: 1 SPQ-box with 600 PTCR 1 box of 1200 PTCR: 40 Sleeves with 30 PTCR each 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 1130–1400°C (2066–2552°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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