



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 UTH

A PRODUCT INFORMATION	
Complete type nomenclature	PTCR UTH 660 – 900°C (1220 –1652°F)
Product identification Ring color as supplied Temperature tables	UTH – code and batch number impressed on each ring Yellow Batch-specific tables are included in each SPQ*-box * SPQ = Standard Packing Quantity
B APPLICATION INFORMATION	
Applicable Temperature Range (ATR) Recommended Temperature Range (RTR)	660 – 900°C (1220 –1652°F) 660 – 900°C (1220 –1652°F)
Applicable in atmospheres including Applicable in kilns including Substrate	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
C AVAILABLE VERSIONS	
PTCR UTH	Dimensions: diameter ~20 mm, height 7 mm
D QUALITY INFORMATION	
Applicable quality standards Accuracy guarantee (68%) Batch identification	ISO 9001 RTR ± 2.25 °RT Batch number is impressed on each ring
E ENVIRONMENTAL INFORMATION	
Main chemical ingredients	Silicates and various dopes (not for internal use).
F PACKING INFORMATION	
PTCR UTH Standard Packing Quantity PTCR UTH 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
PTCR UTL Standard Packing Quantity PTCR UTL Minimum Order Quantity	1 box pf 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°(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 and USB port

vibrantz GmbH
PECC-IND-FCT
Gutleutstraße 215
60327 Frankfurt am Main
Tel. ++49/(0)69/27116 549
Fax. ++49/(0)69/27116 484
e-mail: info-pcg@vibrantz.com