SONOTEC S

Non-Destructive Testing of

HIGH-TEMPERATURE CERAMICS

Contactless, Fast & Reliable

MADE IN GERMANY

Non-Destructive Testing

Ensuring Quality Under Extreme Conditions – With Air-Coupled Ultrasound from SONOTEC

In the production of **technical ceramics**, the highest quality standards are essential – whether during incoming goods inspection, in-process monitoring, or lifetime assessment.

This is especially true for **refractory ceramics** used in applications such as **firebricks**, **slide plates**, **or other ceramic components:** Density fluctuations within the material can lead to internal stresses when exposed to **high temperatures**. In the worst case, this results in structural failure – with costly consequences for your processes.

With SONOTEC's non-contact air-coupled ultrasonic testing, such density variations can be precisely assessed – even on hot components directly after the firing process or during ongoing production. Our specially developed testing

Our Solutions for Your Requirements

SONO-PR 10: Compact Pulser-Receiver for Manual Testing

- → Ready to use without PC or software
- → Clear signal output for rapid evaluation
- → Ideal for spot checks and on-site inspections

SONOAIR: Area Inspection System for Automated Testing

- Systematic scanning of entire component surfaces
- → Highly efficient for larger batch sizes
- → Ideal for integration into your Q&A processes

Typical Fields of Application

- → Quality control during incoming goods inspection
- → Recurring product testing throughout the lifecycle
- → Inline inspection within production processes

systems not only provide insights into structural integrity but also detect typical defects such as cracks, inclusions, or material fatigue – nondestructively and guickly.

Your Benefits at a Glance



Testing possible directly in hot conditions – no cooling required

Reliable detection of cracks, voids, and material weaknesses



Cost-efficient quality assurance throughout the entire lifecycle

Easy and fast integration into existing processes



More Information on SONO-PR 10



More Information on SONOAIR

→ Evaluation of thermally stressed components, such as slide plates, before firing

Rely on SONOTEC – Your Partner for Smart Testing Technology in Ceramic Production. Contact us for expert consultation!

Contact and Support

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