

# REFRACTORY LINING FOR A TEST ROLLER FURNACE FOR THE CERAMICS INDUSTRY

ONEJOON GmbH

## Initial situation

Refractory lining of a test roller furnace which is best suited to the production of thin-film ceramics, including engineering, material supply and installation.

## Solution

The RATH engineering team developed a technically demanding refractory solution for a complex test roller furnace that supports a high degree of flexibility in application and process control, as well as the ability to carry out tests quickly with meaningful results.

## The following products were used:

Molded fiber parts: Kerform KVS 164, KVS 144 and KVS 121

## Challenges mastered:

Technically and geometrically demanding refractory solution for a furnace with numerous lances, nozzles and openings for gas flushing, extraction and measurement; adaptation of material qualities to the required firing temperature of 1400 °C; 3D design; modification of the ceiling construction to the ALTRA Composite System from RATH

## Other services:

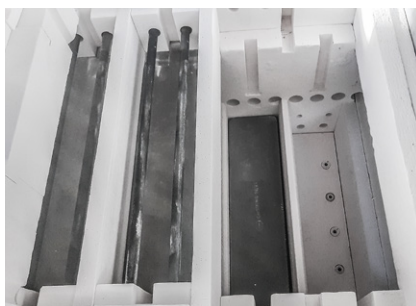
In addition to engineering and material supply, also installation of the refractory lining.

## The advantages:

- Lightweight lining for fast heating and cooling down
- High precision fit of the CNC-milled vacuum-formed shapes
- Dimensionally stable furnace roof without deflection up to 1400 °C

*"RATH is a long-standing and competent partner and has also been a trusted supplier for many years, whose products and service we greatly appreciate."*

**Simon Schurr**  
Vice President Advanced Materials and Processes, ONEJOON



Top view of lower boiler room, product room and upper boiler room



View into the furnace in throughput direction, with blowing-in and exhaust systems on the left and right



CNC-milled sidewall elements with numerous feedthroughs

## CONTACT

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