

## Heat Transfer and Heating of Products in Roller Hearth Kilns

The heat transfer of contact between a product and the transportation roller was experimentally and theoretically investigated. It was shown in which way the material, diameter and rotational speed of the roller influences the heat transfer.

The radiative heat transfer was simulated and calculated for a lot of kilns. The influence of the geometry of the cross section and of the position of radiation tubes on the local heat transfer and on the temperature differences in products was of special interest.

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