

## Resumen n° 85

# MICROSTRUCTURAL EVOLUTION OF FAST FIRING FLOOR TILES PRODUCED BY EXPERIMENTAL DESIGN METHOD

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In this work, as a part of an extended study where previously published set of experiments were designed as  $2^13^3$  mixed-level factorial design approach used and individual effects of the main six factors and their interactions determined. Detailed investigation microstructural evolution of fast firing floor tiles were carried out using X-ray diffraction (XRD) and scanning electron microscopy (SEM) in combination with energy dispersive spectroscopy (EDX). The obtained data was also correlated with some of technological properties of the selected bodies. The results were compared with those already presented in the relevant literature.

**Keywords:** Fast Firing, Floor Tile, Factorial Design, Microstructure